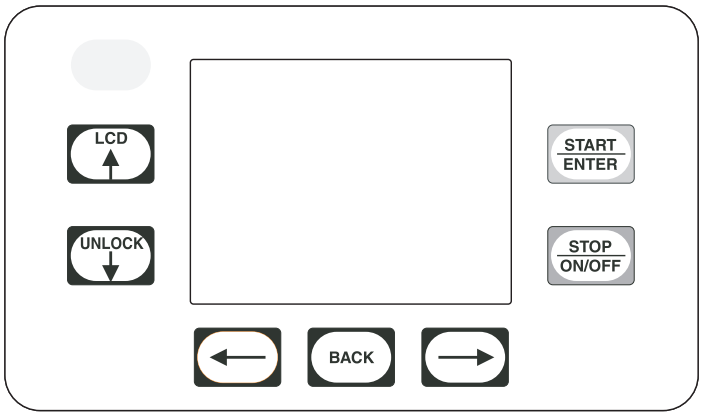
Washer-Extractor

Pocket Hardmount
Variable-Speed
UniLinc Control

Refer to Page 10 for Model Identification

Programming



PHM1401C

Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

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Safety Information

Explanation of Safety Messages

Precautionary statements ("DANGER," "WARNING," and "CAUTION"), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.

WARNING

WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.

CAUTION

CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.

Additional precautionary statements ("IMPORTANT" and "NOTE") are followed by specific instructions.

IMPORTANT: The word "IMPORTANT" is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word "NOTE" is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

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9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
17. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
20. Replace worn power cords and/or loose plugs.
21. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
22. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
23. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

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WARNING

This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.

SW004

CAUTION

Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

SW020

CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

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Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
   a. Attempt to start the machine with the door open. The machine should not start with the door open.
   b. Close the door without locking it and attempt to start the machine. The machine should not start with the door unlocked.
   c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

   If the door lock and interlock are not functioning properly, call a service technician.
3. Do not attempt to operate the machine if any of the following conditions are present:
   a. The door does not remain securely locked during the entire cycle.
   b. Excessively high water level is evident.
   c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

WARNING

Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

SW039

Safe Operating Environment

Safe operation requires an appropriate operating environment for both the operator and the machine. If questions regarding safety arise, contact the manufacturer immediately.

Environmental Conditions

- *Ambient Temperature*. Water in the machine will freeze at temperatures of 32°F (0°C) or below.

  Temperatures above 120°F (50°C) will result in more frequent motor overheating and, in some cases, malfunction or premature damage to solid state devices that are used in some models. Special cooling devices may be necessary.

  Water pressure switches are affected by increases and decreases in temperature. Every 25°F (10°C) change in temperature will have a 1% effect on the water level.
- *Humidity.* Relative humidity above 90% may cause the machine's electronics or motors to malfunction or may trip the ground fault interrupter. Corrosion problems may occur on some metal components in the machine.

  If the relative humidity is below 30%, belts and rubber hoses may eventually develop dry rot. This condition can result in hose leaks, which may cause safety hazards external to the machine in conjunction with adjacent electrical equipment.
- *Ventilation*. The need for make-up air openings for such laundry room accessories as dryers, ironers, water heaters, etc., must be evaluated periodically. Louvers, screens, or other separating devices may reduce the available air opening significantly.
- *Radio Frequency Emissions*. A filter is available for machines in installations where floor space is shared with equipment sensitive to radio frequency emissions.
- *Elevation*. If the machine is to be operated at elevations of over 3280 feet (1000 m) above sea level, pay special attention to water levels and electronic settings (particularly temperature) or desired results may not be achieved.
- *Chemicals*. Keep stainless steel surfaces free of chemical residues.

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DANGER

Do not place volatile or flammable fluids in any machine. Do not clean the machine with volatile or flammable fluids such as acetone, lacquer thinners, enamel reducers, carbon tetrachloride, gasoline, benzene, naptha, etc. Doing so could result in serious personal injury and/or damage to the machine.

SW002

- *Water Damage*. Do not spray the machine with water. Short circuiting and serious damage may result. Repair immediately all seepage due to worn or damaged gaskets, etc.

Machine Location

- *Foundation*. The concrete floor must be of sufficient strength and thickness to handle the floor loads generated by the high extract speeds of the machine. Refer to Installation manual.
- *Service/Maintenance Space*. Provide sufficient space to allow comfortable performance of service procedures and routine preventive maintenance.

Consult installation instructions for specific details.

CAUTION

Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.

SW019

Input and Output Services

- *Water Pressure*. Best performance will be realized if water is provided at a pressure of 30 – 80 psi (2.0 – 5.4 bar). Although the machine will function properly at lower pressure, increased fill times will occur. Water pressure higher than 100 psi (6.7 bar) may result in damage to machine plumbing. Component failure(s) and personal injury could result.
- *Steam Heat (Optional) Pressure*. Best performance will be realized if steam is provided at a pressure of 30 – 80 psi (2.0 – 5.4 bar). Steam pressure higher than 125 psi (8.5 bar) may result in damage to steam components and may cause personal injury.

  For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Failure to install the supplied steam filter may void the warranty.
- *Drainage System*. Provide drain lines or troughs large enough to accommodate the total number of gallons that could be dumped if all machines on the site drained at the same time from the highest attainable level. If troughs are used, they should be covered to support light foot traffic.
- *Power*. For personal safety and for proper operation, the machine must be grounded in accordance with state and local codes. The ground connection must be to a proven earth ground, not to conduit or water pipes. Do not use fuses in place of the circuit breaker. An easy-access cutoff switch should also be provided.

WARNING

Ensure that a ground wire from a proven earth ground is connected to the ground lug near the input power block on this machine. Without proper grounding, personal injury from electric shock could occur and machine malfunctions may be evident.

SW008

Always disconnect power and water supplies before a service technician performs any service procedure. Where applicable, steam and/or compressed air supplies should also be disconnected before service is performed.

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AC Inverter Drive

Machines equipped with the AC inverter drive require special attention with regard to the operating environment.

- An especially dusty or linty environment will require more frequent cleaning of the AC inverter drive cooling fan filter and of the AC inverter drive itself.
- Power line fluctuations from sources such as uninterruptible power supplies (UPS) can adversely affect machines equipped with the AC inverter drive. Proper suppression devices should be utilized on the incoming power to the machine to avoid problems.
- A clean power supply free from voltage spikes and surges is absolutely essential for machines equipped with the AC inverter drive. Nonlinear inconsistencies (peaks and valleys) in the power supply can cause the AC inverter drive to generate nuisance errors.
- Sufficient space to perform service procedures and routine preventive maintenance is especially important for machines equipped with the AC inverter drive.

This manual is designed as a guide to operating and maintaining the Pocket Hardmount washer-extractor equipped with the AC inverter drive.

NOTE: All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

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Introduction

Model Identification

Information in this manual is applicable to these models:

UW35TV	UW100TV
UW60TV	UW125TV
UW80TV	UW150TV

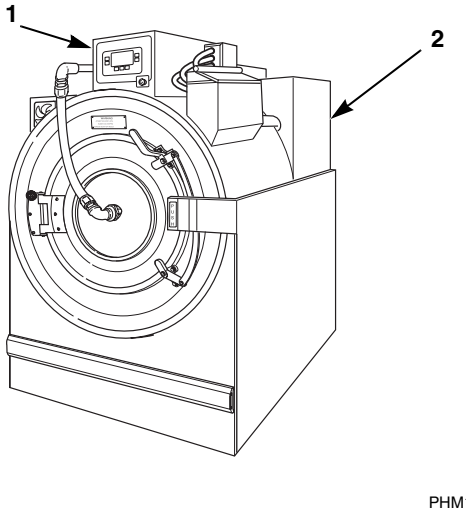
Nameplate Location

The nameplate is located on the back of the machine and is programmed in the UniLinc Control. To access Machine ID through the control:

1. Press and hold STOP ON/OFF, then BACK, then LCD keypads at the same time.
2. Press the → keypad until Diagnostic is highlighted.
3. Press the START ENTER keypad.
4. Press the → keypad until Machine ID is highlighted.
5. Press the START ENTER keypad.

Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1*.

EXAMPLE OF MACHINE NAMEPLATE LOCATION



1 In UniLinc Control
2 At back of machine

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the washer-extractor was purchased or contact Alliance Laundry Systems LLC at (920) 748-3950 for the name of the nearest authorized parts distributor. A parts manual may be ordered by returning the reply card provided with each washer-extractor.

Customer Service

For technical assistance, contact your local distributor or call:

(920) 748-3121
Ripon, Wisconsin

A record of each washer-extractor is on file with the manufacturer. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1*.

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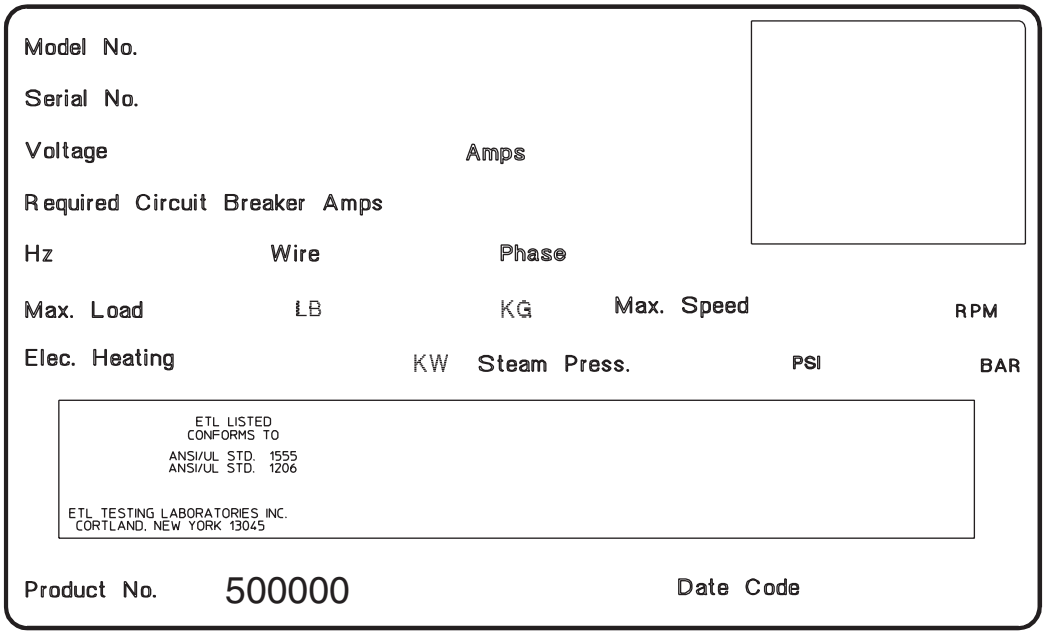
Model Number Familiarization Guide		
Sample Model Number: **UW060TVQU10001**		
UW	Model Number Prefix	
060	Washer-Extractor Capacity (60 pounds dry weight of laundry)	
T	Type of Electrical Control	T = UniLinc Computer
V	Washer-Extractor Speed Capabilities	V = 8 Speeds
Q	Electrical Characteristics	
U1	Design Series	
0001	Option Identification (varies from machine to machine)	



EXAMPLE OF NAMEPLATE

PHM697N

Figure 2

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Preliminary Information

About the Control

The UniLinc control on the washer-extractor is an advanced, graphical, programmable computer that lets the owner control most machine features by interacting with the control.

UniLinc allows the owner to program custom cycles, run diagnostic cycles and retrieve audit, error and bearing information.

Washer-extractors shipped from the factory have default cycles and wash temperature settings built in. The owner can change the default cycle, or any cycle.

IMPORTANT: It is extremely important that the washer-extractor has a positive ground and that all mechanical and electrical connections are made before applying power to or operating the washer-extractor.

Power Failure Recovery

If a cycle is in progress when the power fails, and if the power outage lasts three or more seconds, the cycle is lost and cannot be resumed when power recovers. If the power outage lasts less than three seconds, the control will resume the cycle when the power recovers.

Communications

The control has the ability to communicate with a PDA or a laptop with an IrDA device running the UniLinc software. Devices such as PDAs and laptops that are IrDA capable (able to transmit information to machine) that have been tested and approved for use with the UniLinc software can be used as a tool for managing the machine.

Audit Information

The control collects and stores audit information, which can be accessed with a PDA. Refer to the following list for available audit information with a PDA. Refer to ***UniLinc PC and PDA Application User Instructions***.

- Total Number of Individual Cycle Counters
- Last 25 Machine Cycles
- Service History
- Machine Errors Audit Data
- Communication Audit Data
- Re-Programming Audit Data
- Power Failures Audit Data
- Average Fill Time Audit Data
- Average Drain Time Audit Data
- Power Failure Audit Data

The PDA can receive audit and program data from the control, and send programming data and diagnostic commands to the control. Refer to ***UniLinc PC and PDA Application User Instructions*** for additional information on using a PDA.

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IR Communications Menu

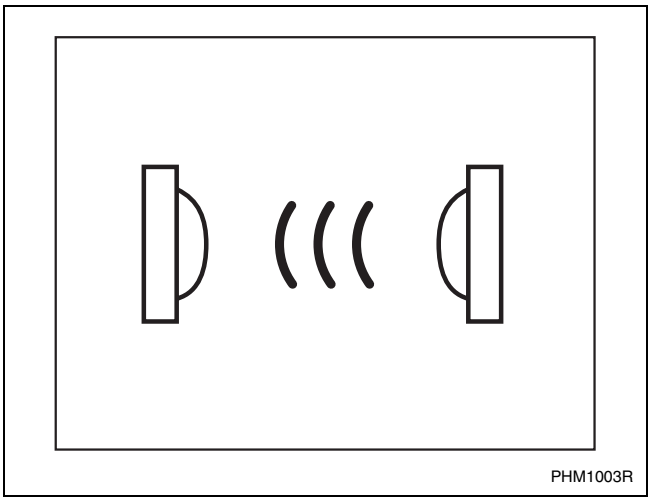

Figure 3

The IR Communications Menu displays while the control is communicating with a PDA. The control will jump back to the previous page when the communication is complete.

IR Communications Error Menu

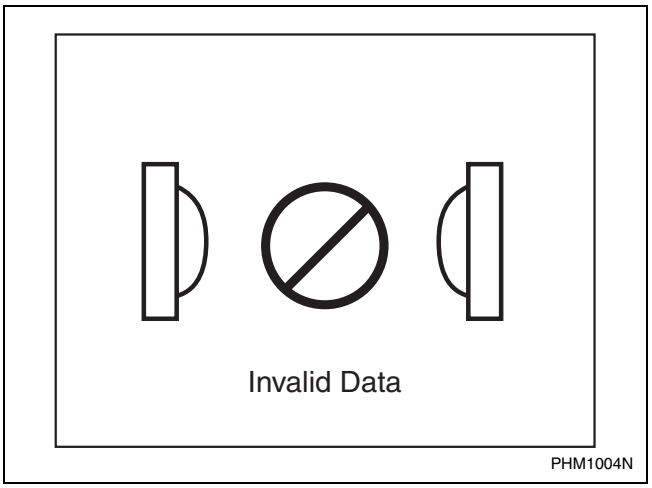

Figure 4

The IR Communications Error Menu displays after the control had an error communicating with a PDA. The control will return to previous page after 3 seconds.

Restore to Factory Defaults

When the user selects Restore All Cycles And Global Settings To Factory-Defaults, the control resets all of the default values. The control also resets Machine Cycles #1 through #41. The control will also reset the following to factory-defaults:

Default Washer-Extractor Settings

Language = English

Maximum Balance Retries = 3

Water Reuse = Disabled

Rapid Advance = Enabled

Water Recirculation = Disabled

External Dispenser Pause = Disabled

Shakeout = 40 seconds

Banner # 1 = Blank

Banner # 2 = Blank

Daylight Saving = Enabled

Water Levels

High = 27
Medium = 15
Low = 3

Water Temperature

Hot = 140 F
Warm = 100 F
Cold = 35 F
Cooldown = 110 F

Temperature Controlled Fill = Disabled

Audio Signal External Signal = Disabled

Keypad Signal (beep) = Enabled

End of Cycle / Segment Sound = Enabled Low, 5 second duration

Alarms

Fill = 5 minutes
Drain = 2 minutes
Heat = 1 hour 30 minutes

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*Manual Programming = Enabled

*If manual programming is disabled, programming changes to UniLinc can only be made with an external communication device. Refer to ***UniLinc PC and PDA Applications User Instructions.***

Refer to Factory Defaults, Menu section for information on Restoring Factory Defaults.

Entering Program Mode

1. Press and hold STOP ON/OFF, then BACK, then LCD to enter the System Menu. Select Program to enter programming options.

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UniLinc Identification

Operational Keypad

The control includes seven keypads. These functions are available to the operator and are intended to control and manage operation of the washer-extractor. Refer to *Figure 5* and *Table 1*.

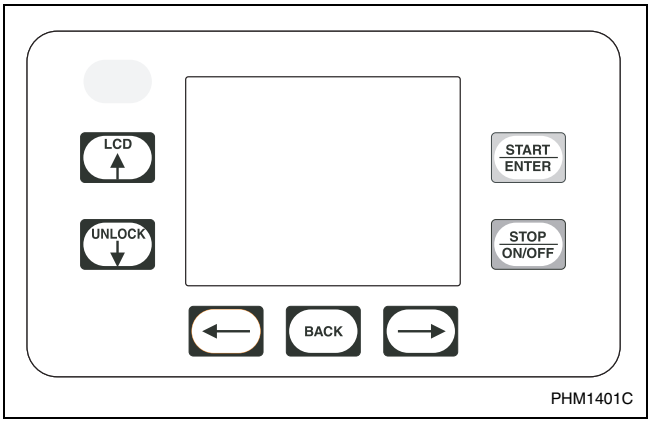

Figure 5

Keypad	Description
LCD/UP ARROW	Press to move the cursor on display to edit programming values. Also, press while in Cycle Menu or Run Menu to change to the Contrast Adjust/Backlight Menu. Also, press with BACK and STOP ON/OFF to enter System Menu.
UNLOCK/DOWN ARROW	Press to move the cursor on display, edit programming values, or unlock door. The door can only be unlocked while the machine is idle.
LEFT ARROW	Press to move cursor on display.
BACK	Press to move back to the previous display menu. Also, press with STOP ON/OFF and LCD to enter System Menu. Also, back from the Cycle Menu to enter the Service Schedule Menu.
RIGHT ARROW	Press to move cursor on display. Press while running a cycle to get to Run Diagnostic Menu. Press and hold with STOP ON/OFF to enter Delayed Start Menu.
STOP/ON/OFF	Press to stop and abort a machine cycle during Run Mode. Also press with BACK and LCD to enter System Menu. Press with → to enter Delayed Start Menu.
START/ENTER	Press to start or rapid advance a machine cycle during Run Mode. Also, press to save edited programming values when used in programming menus.

Table 1

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Operation Modes

General Modes of Operation

In each mode of operation, the user may press keypads or communicate with the control to change the displayed menu.

Power-up Mode

The control enters this mode at power-up. After the control completes operation in the Power-up Mode it will enter Idle Mode. The display is blank during Power-up Mode.

Idle Mode

Control is ready for operation in Idle Mode. Control can display different menus depending on user input (keypad press, opening or closing the loading door, or PDA communication). If there is no user input for one minute, control will turn off the LCD backlight. Control will light when there is user input. If there is no user input for 10 minutes, display will go blank.

If control is in Idle Mode, Cycle Menu is displayed, loading door closed, and the START ENTER keypad is pressed, control will enter Run Mode.

Run Mode

Control enters Run Mode during a cycle. Display shows machine cycle time remaining, the colon flashing one second on/one second off indicating that the cycle time is counting down, and the display will indicate the current cycle step. Loading door is closed and locked during Run Mode. Press STOP ON/OFF keypad to end cycle and enter Stop Mode. Press START ENTER keypad to Rapid Advance to the next cycle step (if the Rapid Advance feature is enabled. The Rapid Advance feature is enabled by default.) Control enters Error Mode if loading door unlocks or opens.

Stop Mode

If STOP ON/OFF keypad is pressed before cycle ends, control enters Stop Mode and performs the following steps:

- Displays a hourglass**.**
- Turns off all outputs.
- Verifies water is drained.
- Verifies motor is stopped by either rotation sensor or time.
- The control will display the unlock door screen. The user must unlock and open the door to return to the Cycle Menu.

Error Mode

This mode will be entered to display all alarms and machine errors.

Delayed Start Countdown Mode

Delayed Start Countdown Menu is entered after delayed start is activated. The display will show the hours and minutes remaining until the machine will automatically start.

The Delayed Start Final Countdown Menu is entered during the last sixty seconds before the control is automatically started. The START ENTER keypad will start the selected cycle immediately. Press STOP ON/OFF to return to the Cycle Menu.

Communication Mode

This mode is entered whenever the control is communicating with a PDA. Refer to ***UniLinc PC and PDA Applications User Instructions.***

Entering Diagnostic Mode From Idle Mode

When entered from the Idle Mode, the control will be running a test selected by the user via keypad presses or communication with a device. The diagnostic tests available from the Idle Mode are the Test Cycle, Test Balance Weight, and Inputs Outputs Menus.

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Machine Cycle Definition and Operation

There are 41 machine cycles which can be selected and run. Machine cycles can be modified or made “unavailable” by manually editing them in Modify Cycle Menu or by using the PDA to download a modified machine cycle into the control. Machine cycles cannot be deleted, but can be made “unavailable” so that they are not visible from the Cycle Menu. New machine cycles cannot be created, but existing machine cycles that have been edited to be “unavailable” may be re-edited to be available again.

Machine Cycle Operation

When a cycle is run, the control runs the cycle segment by segment and step by step in a sequence. The first segment can be programmed to “Off”, “Prewash”, “Wash” or “Rinse”. If the segment is programmed to “Off”, control skips to the next segment. If the segment is not programmed to “Off”, the first segment step (Reuse Fill step) is examined to see if it is programmed on. If the segment step is programmed on, it is executed and the next step follows until the segment is complete. Any segment steps programmed to “Off” are skipped.

At the start of a machine cycle, the control displays a Total Remaining Cycle time. This time is taken from the audit data for this cycle where there is stored an average time elapsed for the last three of these cycles that had been completed. The Total Remaining Cycle Time begins to count down as soon as the cycle is started. Since there will be differences between the average elapsed cycle time and the actual elapsed cycle time, the Total Remaining Cycle Time displayed is corrected at the start of the cycle’s final enabled step that has programmed time duration.

Rotation Sensor Equipped Machines

On machines equipped with rotation sensors and a rotation sensor error has not occurred, the control monitors the rotation sensor. The control will never send a new motor output which would reverse the motor direction or force the motor to run at a lower speed if the rotation sensor input indicates that the machine basket is rotating. The control will wait for the rotation to stop before sending the motor command.

Delayed Start Feature

The user can select a machine cycle to run at a later time. Refer to *Delayed Start Menu Section.*

Jog Feature UW150 Only

The user can use Jog Feature from the Cycle Menu in Idle Mode, while the machine door is open. When the control detects that the jog buttons are pressed, the control will wake up and start a five second sound, turn the beeper on and off for five seconds and then the motor will turn in reverse direction at a reduced speed.

WARNING

To avoid personal injury, do NOT reach into the basket while it is rotating. Keep all personnel at a safe distance from the machine while using the basket Jog Feature.

W641

Cycle Menu

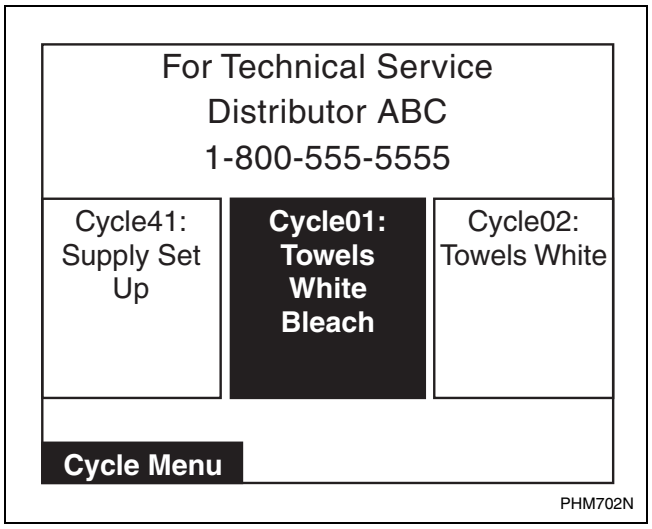

Figure 6

The Cycle Menu is the first menu displayed by the control at power-up. The Cycle Menu allows the user to select one of the 41 machine cycles. Machine cycles that are turned off will not be displayed in the Cycle Menu. As a default, the last run cycle will be displayed in the center, highlighted position. The factory default cycle will be Cycle01.

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To Start a Cycle

1. Press the ← or → keypad to change cycles.
2. Press the → keypad to move the cycle in the rightmost menu box to the center, highlighted position.
3. Press the ← keypad to move the cycle in the leftmost menu box to the center, highlighted position.
4. Moving the ← and → keypads allows the Cycle Menu to scroll through the center, highlighted position.
5. Press START/ENTER to start selected cycle.

NOTE: Press and hold ← or → keypad to make highlighted area move rapidly.

NOTE: If door is not closed when the START/ENTER keypad is pressed, display will jump to the Close Door Menu.

NOTE: If the machine has operated over 200 hours and the Lubricate Bearings has not been reset from the System Menu the Global Settings, a reminder screen will pop up. The Lubricate Bearings Menu will be display for five seconds and the Cycle Menu will display for five seconds. This will occur until the Bearing Timer is reset in the System Menu. The Lubricate Bearings Menu will only be shown during the Cycle Menu.

Every night at midnight the control will enter Service Schedule Menu if the machine is in idle mode on the Cycle Menu.

When a keypad is pressed or the door is opened or an IR communication takes place the control will turn the LCD contrast on and the backlight back on (if programmed).

Control will also enter specific service sub-menu for that day.

Quarterly Menu displays on the first day of the month for January, April, July and October.

Monthly Menu displays on all other first days of the month.

Weekly Menu displays on a Monday not on the first day of the month. All other days the control will display the Daily Menu.

Press any keypad to clear the menu and enter Cycle Menu.

Optional settings are performed by either pressing a keypad or by a combination of keypad presses:

- Press the LCD keypad to jump control to the Contrast Adjust/Backlight Menu.
- Press the BACK keypad to enter the Service Schedule Menu.
- Press and hold STOP/ON/OFF then → to enter Delayed Start Menu.
- Press and hold STOP/ON/OFF then BACK then LCD to enter the System Menu.
- Press the UNLOCK keypad on the Cycle Menu to unlock door.

A Banner is displayed above the Cycle Selections in the Cycle Menu. If Banner 1 and Banner 2 are programmed, Banner 1 displays for ten (10) seconds and Banner 2 displays for ten (10) seconds. If only one Banner is programmed it will be the only one shown. Refer to Banner Menu Section.

During communication with the PDA, all menus enter IR Communications Menu.

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Run Menu

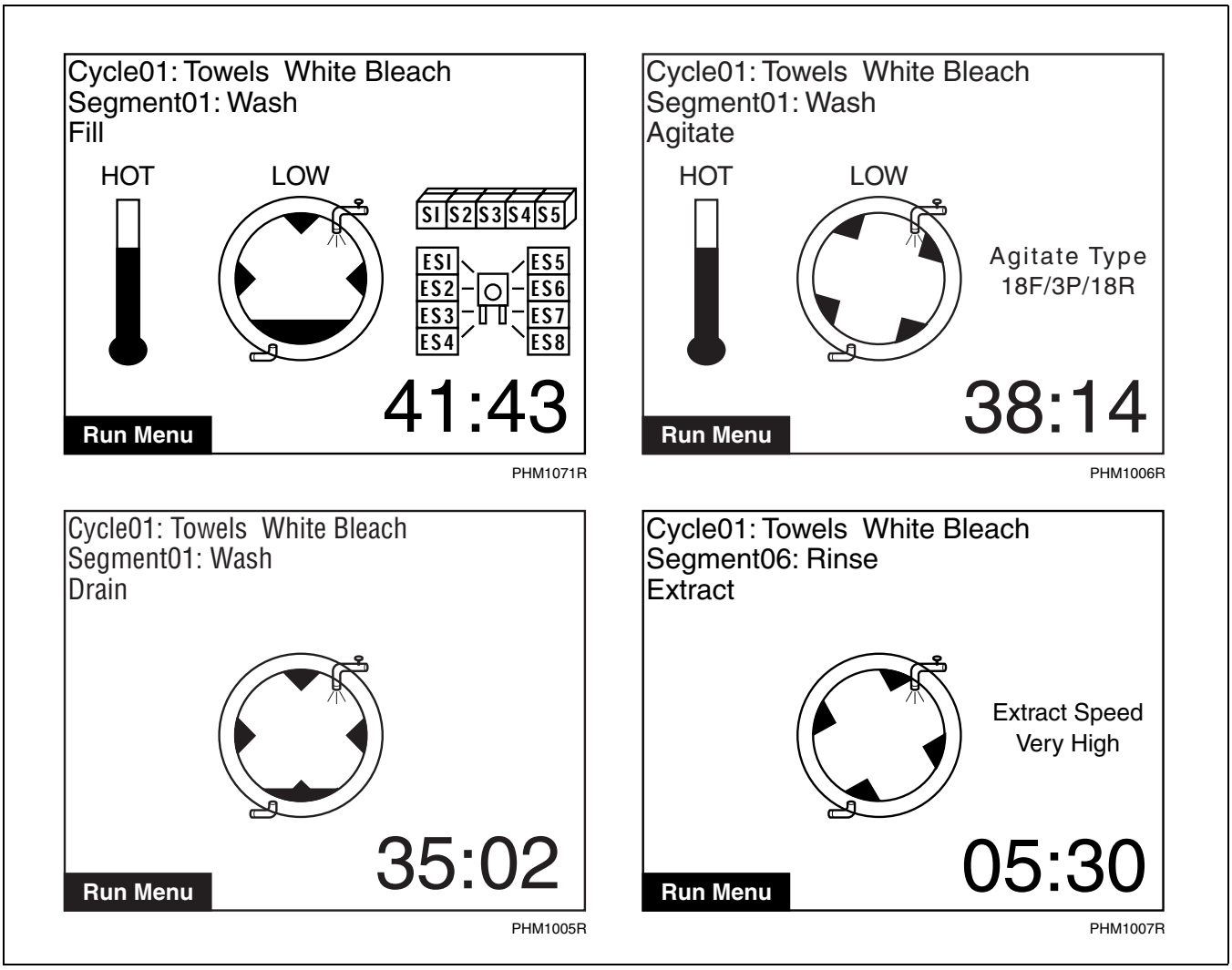

Figure 7

Run Menu provides cycle, segment, and step information while the machine is operating. Refer to *Figure 7*.

Supplies are only shown during the fill and supply steps.

During the agitate steps the type of agitation is shown. During the extract steps, the extraction speed displays.

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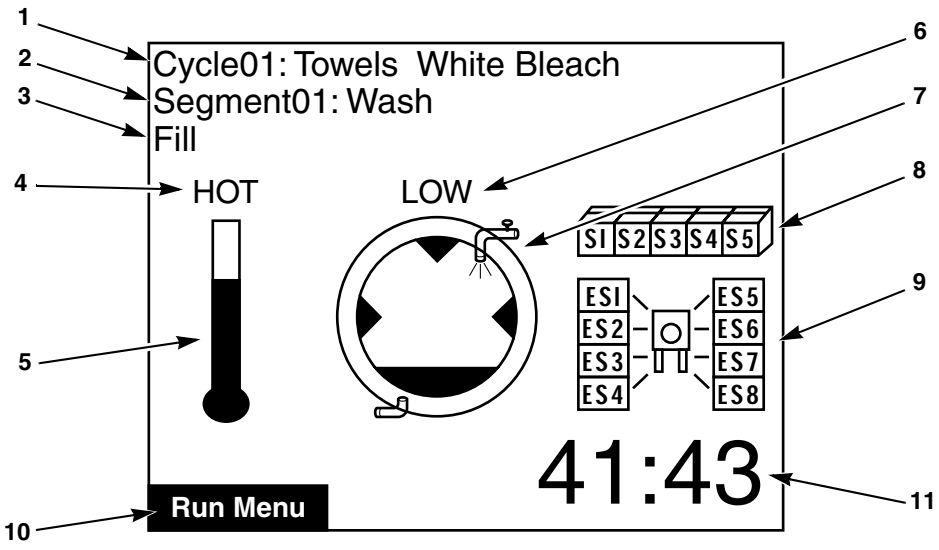

PHM1071N

1	Cycle Name	**6**	Water Level – OVFL, HIGH, MED, LOW
2	Segment Name	**7**	Water Level – Graphical Value/Action graphic
3	Step Name	**8**	Internal Supply Indicators
4	Programmed Water Temperature - HOT, WARM, COLD or actual temperature	**9**	External Supply Indicators
		10	Run Screen Indicator
5	Actual Temperature – range of 32-212F	**11**	Countdown Timer

Figure 8

The Run Menu cannot be navigated by manipulating the arrow keypads. Press START ENTER keypad to advance the cycle one step. The Control cannot advance into a Spray Rinse Extract or an Extract Cycle Step. Advancing the steps within a cycle also depends on whether the option has been toggled on or off in the Rapid Advance Menu.

The Run menus include the Run Menu, the Run Diagnostic Menu, and the various sub-screens of the Run Diagnostic Menu. Press the → keypad to jump to the Run Diagnostic Menu.

Press the STOP ON/OFF keypad to stop the cycle in any of the Run menus.

When the STOP ON/OFF keypad is pressed, the display will jump to the Cycle Stopped Menu showing an hourglass.

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Contrast/Backlight Menu

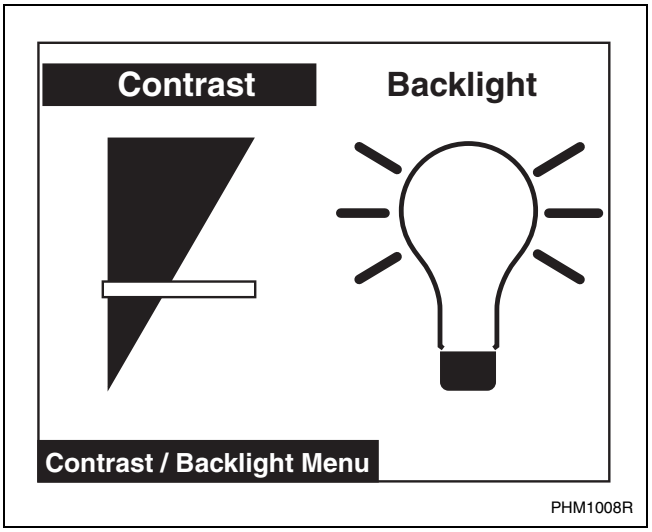

Figure 9

Press the LCD keypad from Cycle Menu or Run Menu to enter the Contrast Adjust/Backlight Menu. The Contrast Adjust/Backlight Menu allows the user to adjust contrast and turn the backlight on or off.

Press the ← or → keypad to highlight "Contrast" or "Backlight" menu items.

Once the menu item has been selected, press the LCD or UNLOCK keypad to change contrast. The backlight is either on or off and will have a factory default of on.

Press the BACK keypad to enter the previous page.

If the Contrast Adjust/Backlight Menu is selected from the Run Menu and the STOP ON/OFF keypad is pressed, the Cycle is aborted.

Close Door Menu

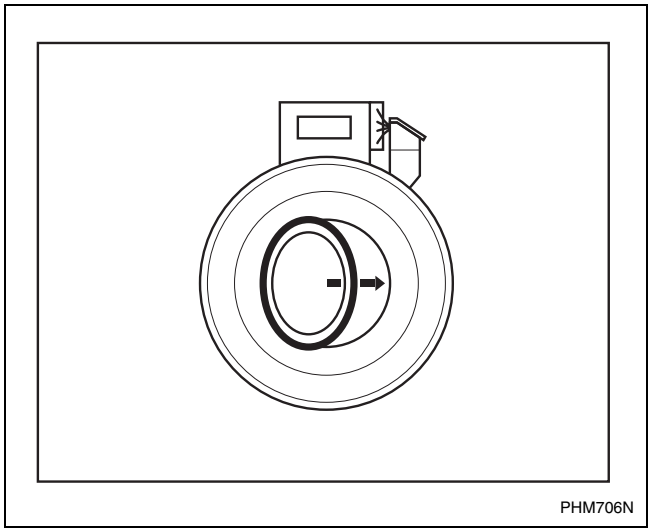

Figure 10

The Close Door Menu displays when loading door on the machine is open and needs to be closed.

Close door to start cycle or press the BACK keypad to return to Cycle Menu.

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Lubricate Bearings Menu

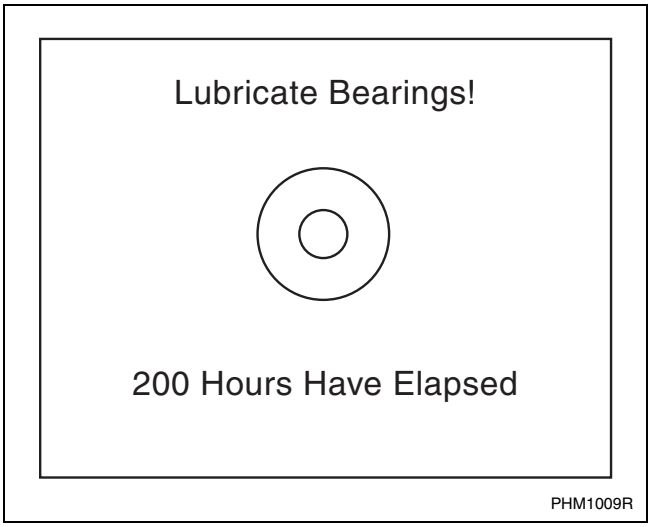

Figure 11

The Lubricate Bearings Menu displays when the machines has run for 200 hours and the bearing is the type that can be lubricated. The Lubricate Bearings Menu displays during Idle Mode when the Cycle Menu is displayed. The Lubricate Bearing Menu and Cycle Menu will alternate being displayed.

To remove the Lubricate Bearings Menu from being shown during Idle Mode, the user must reset the bearing timer by navigating to the System Menu and reset the bearing timer. Press any keypad to display Cycle Menu while viewing Lubricate Bearings Menu.

Run Diagnostic Menu

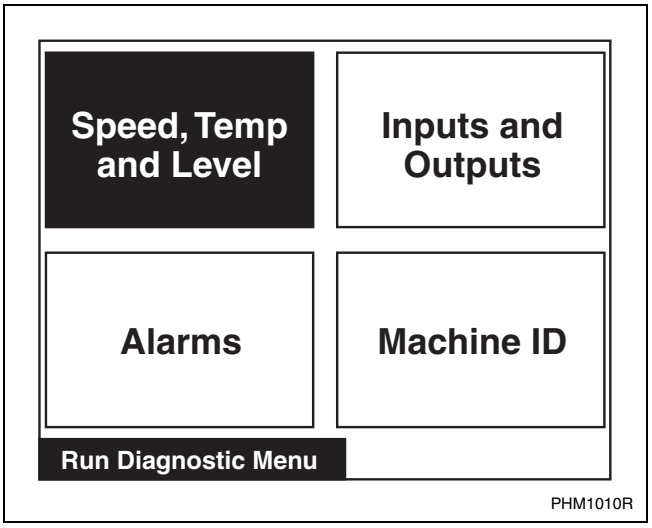

Figure 12

The Run Mode Diagnostic Menu allows user to access diagnostic information of the cycle currently running. The menu contains speed, temperature, water level, inputs and outputs, alarms, and machine ID.

While machine is running, press the → keypad to enter Run Diagnostic Menu.

Press the ←, →, LCD, or UNLOCK keypad to navigate the menu.

Press the START ENTER keypad to choose selection.

If the BACK keypad is pressed, display enters Run Menu. If nothing is selected for 15 seconds, the display will return to Run Menu.

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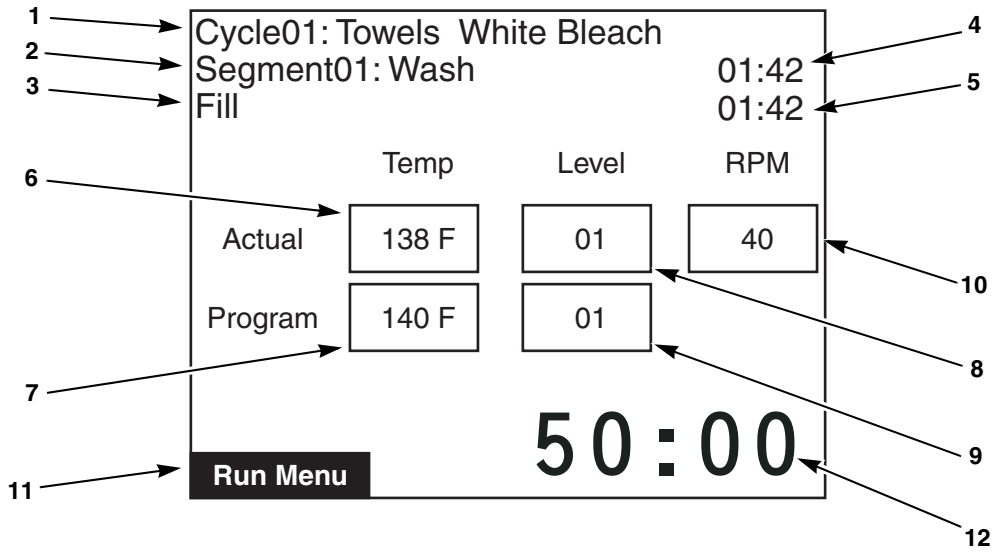
Speed, Temp and Water Level Menu



PHM1083R

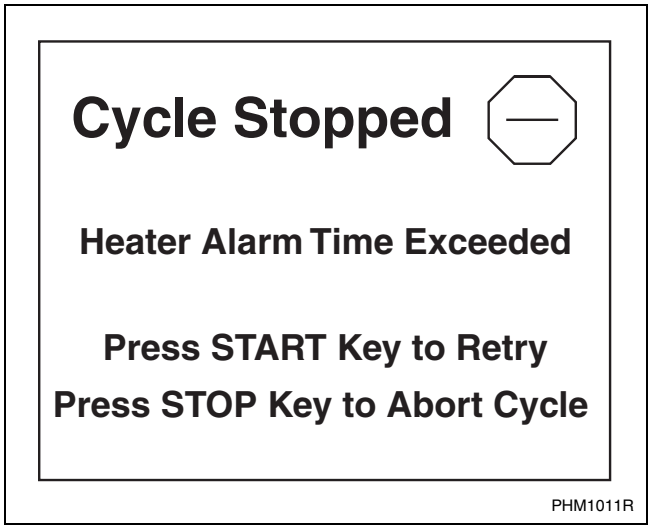
1	Cycle Name	**7**	Programmed Water Temperature
2	Segment Name	**8**	Actual Water Level
3	Step Name	**9**	Programmed Water Level
4	Segment Time Elapsed	**10**	Actual RPM
5	Step Time Remaining	**11**	Run Screen Indicator
6	Actual Water Temperature	**12**	Cycle Time Remaining

Figure 13

The Speed, Temp, and Level Menu will display the actual RPM, temperature and level, and program values of the temperature and level during run mode. The top portion of the display contains the same information listed in the Run Menu detailing Cycle, Segment, and Step operation.

Press BACK keypad to enter Run Mode Diagnostic Menu. Press STOP ON/OFF keypad to stop the cycle, the control will enter Cycle Stopped if there is rotation or the Unlock Door page if there is not rotation. Press the START ENTER keypad to advance the cycle one step. The Control cannot advance into a Spray Rinse Extract or an Extract Cycle Step. Advancing the steps within a cycle also depends on whether this option has been changed to on or off in the Rapid Advance Menu.

Cycle Aborted Retry Menu



PHM1011R

Figure 14

The Cycle Aborted Retry Menu will be displayed for a fill, drain or heater alarm time error. The display will toggle this page with the Run Menu every three seconds. Press START ENTER to resume the cycle.

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Press STOP ON/OFF keypad to abort the cycle. After two minutes without a keypad press the control will abort the cycle and go to the Cycle Aborted Fatal Menu.

Cycle Aborted Fatal Menu

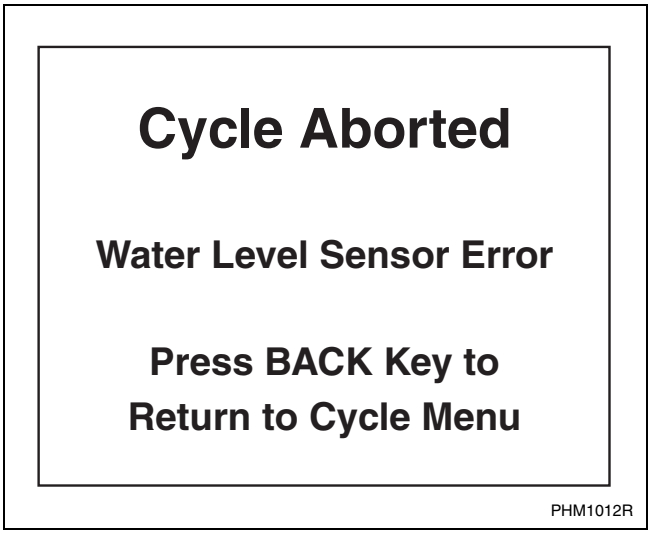

Figure 15

The Cycle Aborted Fatal Menu will be displayed during any fatal errors or if the cycle is aborted from the Cycle Aborted Retry Menu. Press the BACK keypad to exit the menu. Control will go to the Cycle Stopped Menu or the Unlock Door Menu (depending on if there is rotation or water present).

Cycle Stopped Menu

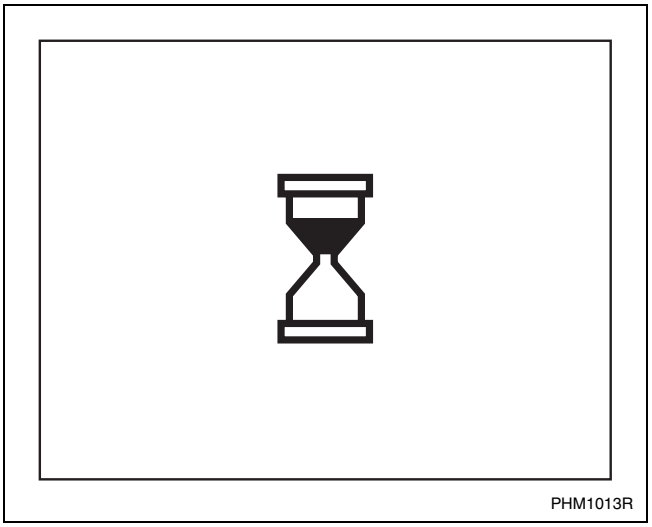

Figure 16

The Cycle Stopped Menu is displayed while the control is waiting for the basket to stop spinning. After rotation is complete and the water has drained from the machine the control will go to the Unlock Door Menu.

Delayed Start Menu

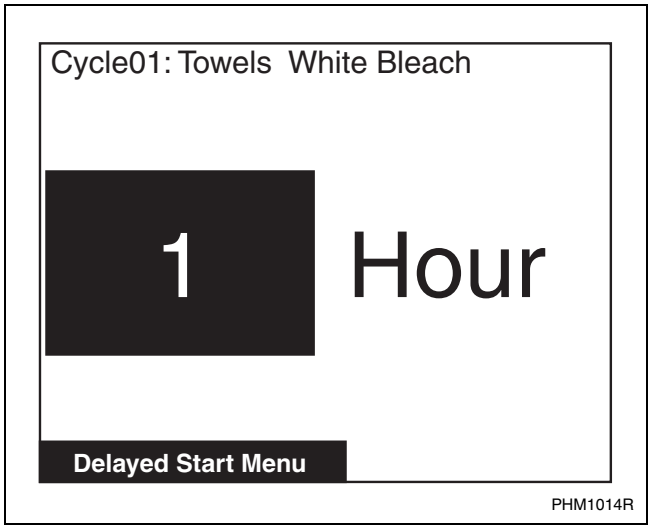

Figure 17

The Delayed Start Menu allows user to select in how many hours the cycle should start.

Delayed Start Menu is only available from the Cycle Menu.

If the loading door is opened, if the STOP ON/OFF keypad is pressed, or if there is a power failure during the delay, the Delayed Start is aborted and is recorded as an aborted cycle in the Last 10 Cycles Rapid Advance or Stopped Audit Queue.

NOTE: 16 hours is the maximum delayed start time.

To activate a delayed start cycle:

1. Select the desired cycle for delayed start.
2. Press and hold STOP ON/OFF and → keypads. The cycle that was selected will display with the Delayed Start Menu.
3. Press the LCD ↑ or UNLOCK ↓ keypad to alter the number of hours.
4. Press the BACK keypad to go back to Cycle Menu.
5. Press the START ENTER keypad to enter Delayed Start Countdown Time Menu.

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Delayed Start Countdown Menu

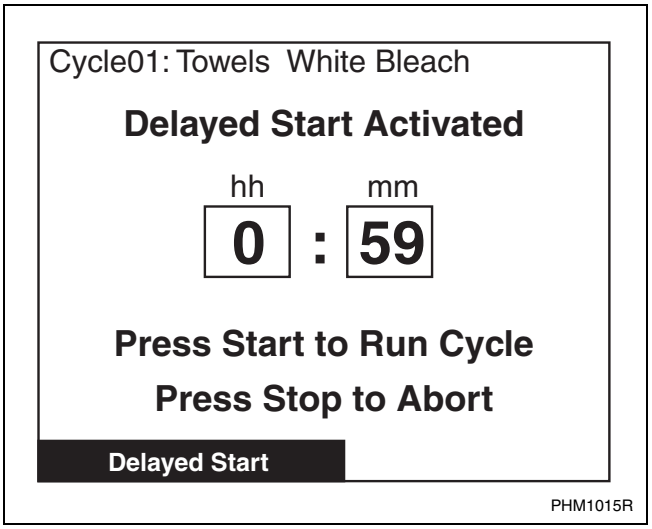

Figure 18

The Delayed Start Countdown Menu will be shown after the delayed start feature has been activated.

Press STOP ON/OFF keypad to return to the Cycle Menu. When there is sixty seconds left on the countdown, control will enter the Delayed Start Final Countdown Menu.

Delayed Start Final Countdown Menu

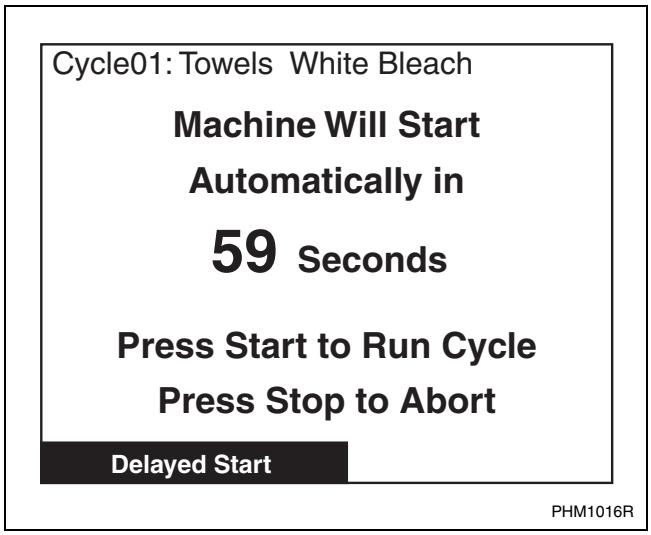

Figure 19

The Delayed Start Final Countdown Menu is displayed during the last sixty seconds before the control is automatically started. The audio signal will sound one second on and one second off.

The START ENTER keypad will start the selected cycle immediately. The STOP ON/OFF keypad will jump to the Cycle Menu.

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Menu Navigation

The UniLinc

The front-end control allows the user to control machine operation by pressing keypads to select options on the display menus and by navigating between display menus.

The control has four ways to navigate to program, edit, and select items in menus

Menu Navigation on a Single Screen

The Menu Navigation on a single screen displays a list of items arranged either left to right and/or top to bottom on the screen. A highlighted box shows the selected item in the menu. Press the directional arrow keypads to move the highlighted box between choices.

Press the START ENTER keypad to select an item. Press the STOP ON/OFF keypad to turn an item on or off.

NOTE: In Cycle Menu, the highlighted box remains in the center, and the cycles scroll as the directional keypads are pressed.

Menu Navigation with Parameters

Another type of menu similar is a menu with modifiable parameters. The → and ← keypads are used to navigate through the screens. The LCD ↑ and UNLOCK ↓ keypads are used to change the valve of the highlighted item.

An example is the Temperature Menu under Global Setup. The menu items are positioned vertically, but the ← and → keypads are used to navigate through the different items while the LCD ↑ and UNLOCK ↓ keypads are used to adjust the values.

Screen to Screen Navigation using the Arrow Keypads

In Screen to Screen Navigation, the ← or → keypad are used to go from one menu page to the next (i.e., moving from Alarms [1 of 3] Menu to Alarms [2 of 3] or Alarms [3 of 3] menus), if a menu cannot fit entirely on the same page. The Laundry Management Menu uses this navigation method.

Navigation

The Edit Mode is used when a letter or numeric value has to be modified or created. The highlighted box is moved over the editable item and the START ENTER keypad is pressed. The mode can be verified by seeing the first character in the item with a blinking underscore underneath. The character can then be changed by using the LCD ↑ and UNLOCK ↓ keypads.

For example, the Cycle Name can contain the capital letters “A” through “Z”, small letters “a” through “z”, the numbers “0” through “9”, and special characters. The user can go forward to the next character in the item by using the → keypad. Press the ← keypad to go backward a character. If the first character in the item is selected and the ← keypad is pressed, the cursor will go to the last character of the item. Thus, the cursor will move only within the item when the horizontal keypads are pressed.

Another example of the edit mode is when the user is programming the time. In the edit mode when programming a time, the only characters that can be selected are “0” through “9” when using the LCD ↑ or UNLOCK ↓ keypad.

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Display Screen Maps

Refer to the following charts for maps of all of the display menus.

System Menu Map Tree

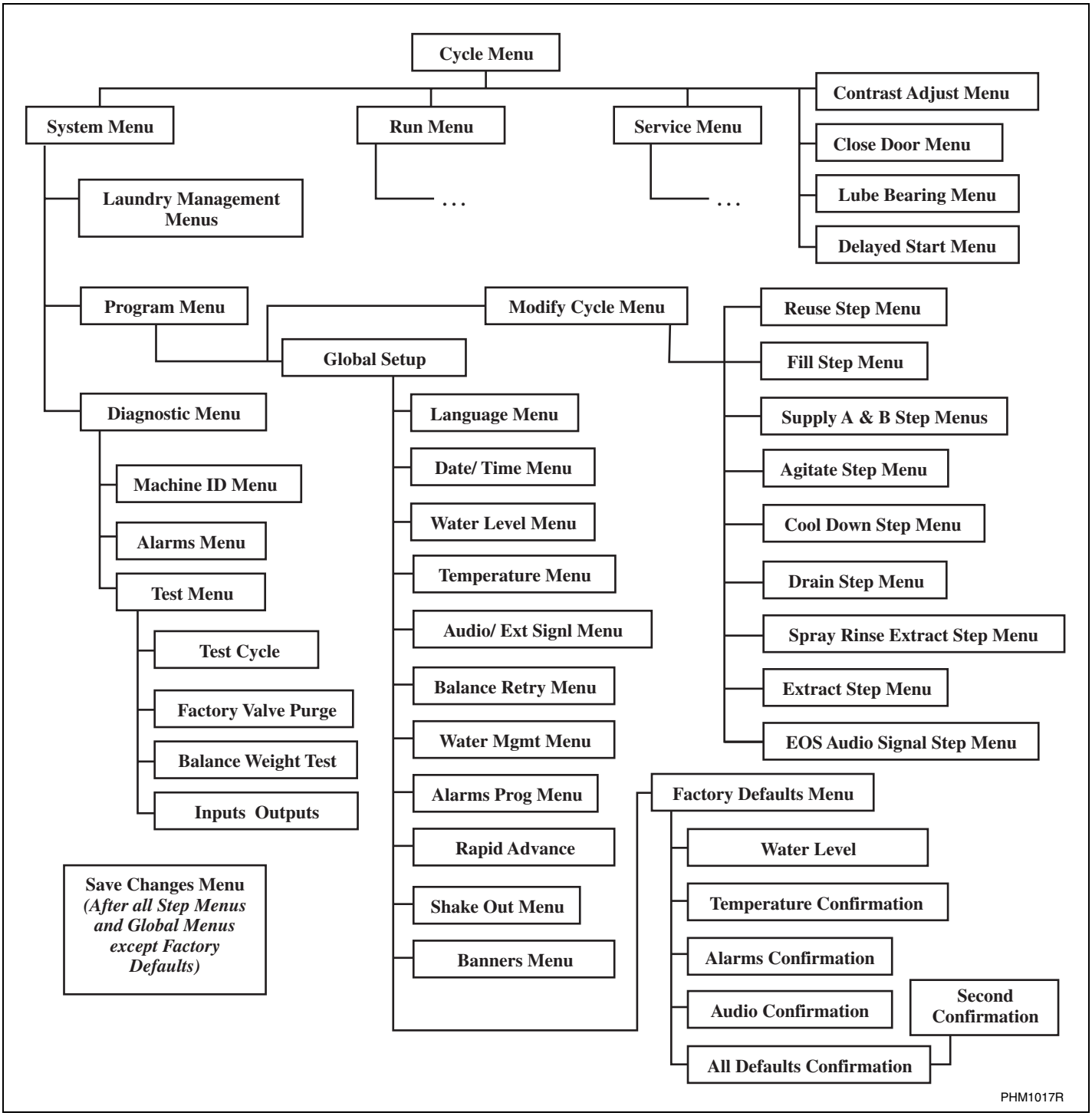

Figure 20

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Run Menu Map Tree

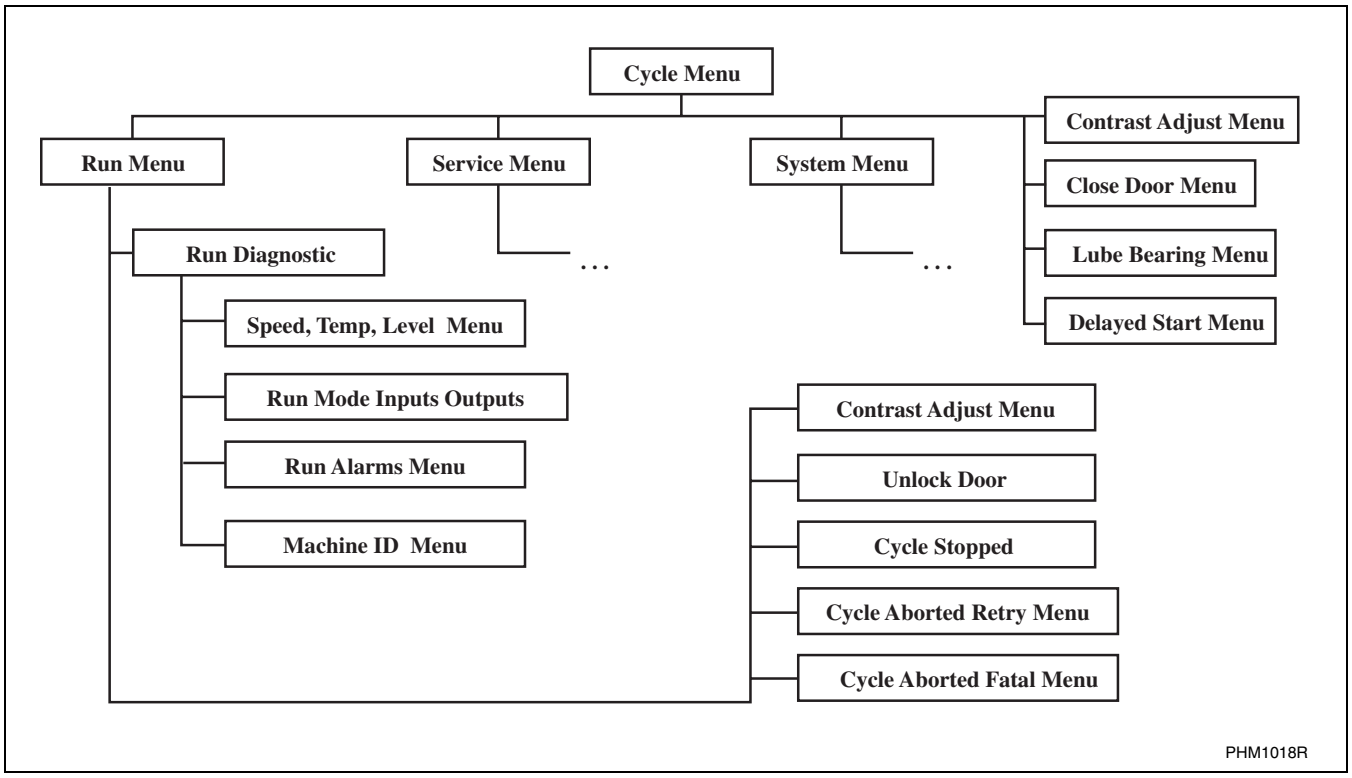

Figure 21

Service Menu Map Tree

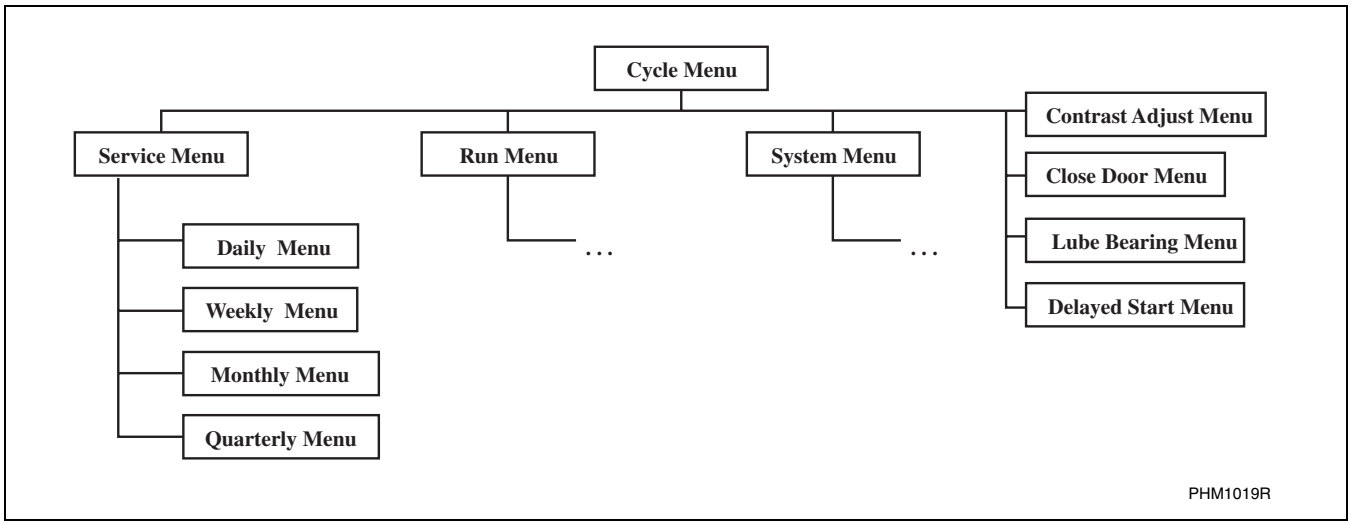

Figure 22

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Programming UniLinc

System Menu

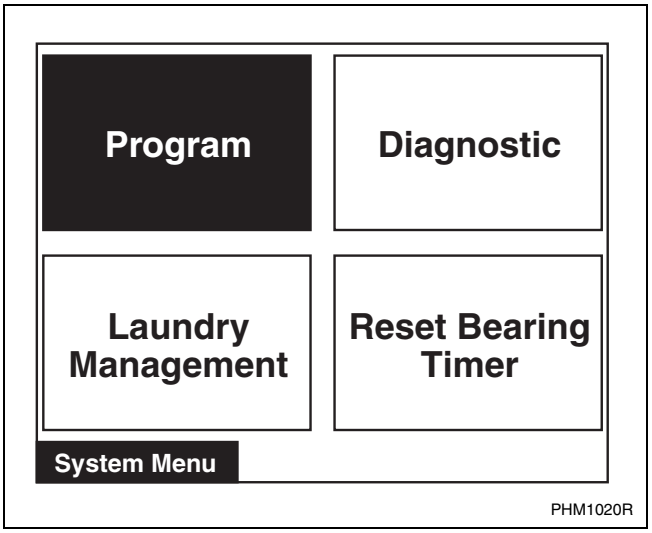

Figure 23

The System Menu allows the user to access: cycle programming, diagnostics, laundry management, bearing timer reset/reset bearing timer.

Press and hold STOP ON/OFF , then, BACK , then LCD to enter the System Menu.

The System Menu is a submenu of the Cycle Menu. The navigation of the System Menu is different from the Cycle Menu. In the Cycle Menu, the highlighted text box was stationary. In the System Menu, the ARROW keypads control the location of the highlighted text box. Text will remain at the same location but the highlighted box will move when the text box when the ← , → , LCD , and UNLOCK keypads are pressed.

Press the START ENTER keypad to enter selected menu.

Press the BACK keypad to return to the Cycle Menu screen.

If the user highlights Reset Bearing Timer and presses the START ENTER keypad, the text changes to Bearing Timer Reset and the control resets the total operation time since the bearings were last serviced. This menu item will not be an option on machines that do not have a greasable bearing.

Save Changes Menu

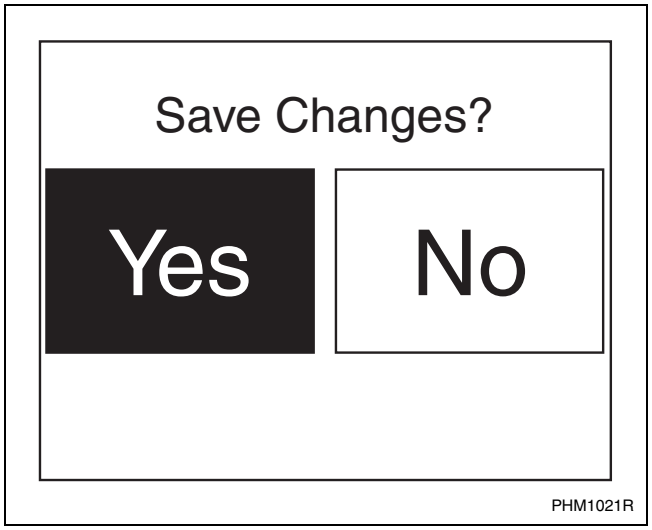

Figure 24

The Save Changes Menu is used to confirm programming changes when modifying a cycle or the parameters of the Global Settings. The Save Changes Menu will default to Yes. Using the ← or → keypad will move the cursor between Yes or No. Press the START ENTER keypad to make a selection. Once the START ENTER keypad is pressed, the display will either return to the Modify Cycle Menu or the Global Setup Menu depending in which submenu the display was in.

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Program Menu

Program Menu

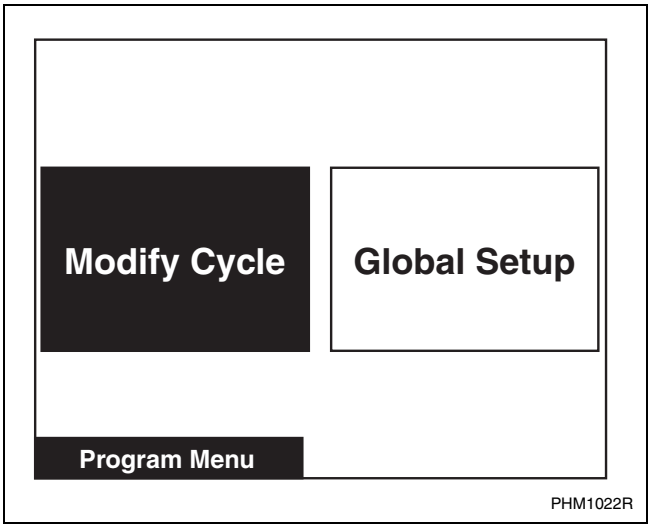

Figure 25

In System Menu, select Program and press START/ENTER .

To program cycles, select Modify Cycle and press START/ENTER .

To change properties that will affect the machine globally, select Global Setup (i.e., water temperature Cold to 35°F, will make the cold water temp 35°F for all cycles) and press START/ENTER .

Press the BACK keypad to return to System Menu.

Modify Cycle

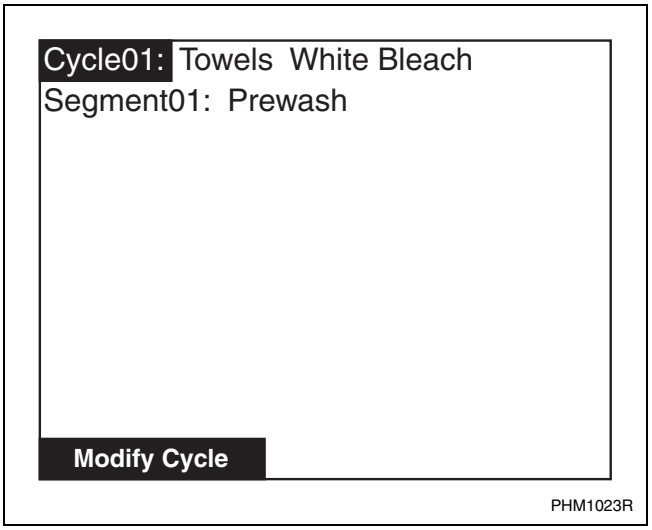

Figure 26

The Modify Cycle Menu is used to program the cycles. For programming steps, the Modify Cycle Menu changes to the Step Menu.

The Cycle Number will be highlighted when the Modify Cycle is first displayed.

Press the LCD or UNLOCK keypad to change cycle selections.

The cycle can be turned on and off by pressing the STOP/ON/OFF keypad. If the cycle is turned off, the Cycle Name will display “Off” and the user will not be able to make any changes to the cycle.

Press the → keypad to make the highlighted box move to the cycle name to the right of the cycle number.

Press the ← keypad to make the display jump to the End of Segment (EOS) Audio Signal Step Menu of the last segment of that cycle which is programmed “On”.

NOTE: All segments and available steps have to be scrolled through even though they may be shut off. *Figure 27* illustrates the flow of the cursor during the programming of a cycle.

To edit a cycle name, select the cycle name and press the START/ENTER keypad.

The first character of the Cycle Name will have a blinking underscore underneath to display it is ready for editing. Use the LCD and UNLOCK keypads to select the different characters. After the desired character has been selected, press the → keypad to save the character and move to the next character in the string. The user may press the ← keypad to go back a character. Pressing the ← keypad when located on the first character will take the user to the last character of the string, which may be a blank space. Continue pressing the ← keypad to move to desired character. The blinking underscore is under the last character of the string and the → keypad is pressed, the blinking underscore will move to the first character of the string.

Press the START/ENTER keypad to exit string edit mode.

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NOTE: Refer to *Table 2* for a chart of available letters, numbers and symbols.

Press the → keypad to move highlighted box to Segment Number or press the ← keypad to move the highlighted box back to the Cycle Number. While the Segment Number is highlighted, the Segment Number can be turned on or off by using the STOP ON/OFF keypad. If turned off, all sub programming steps will become inaccessible.

Press the LCD ↑ or UNLOCK ↓ keypad to change segment selections.

Press the → keypad to move the highlighted text box to the Segment Name.

While the Segment Name is selected, the user selects the Segment Name from a list of three choices by pressing the LCD ↑ or UNLOCK ↓ keypad. The Segment Name choices are Prewash, Wash, and Rinse.

NOTE: OFF may also be displayed in the Segment Name position if the segment number had been turned off previously, but is not a menu choice.

Press the ← keypad to move highlighted box back to the Segment Number. Press the → keypad to move into step menus of cycle segment. Steps have separate menus (different screens) from the Modify Cycle Menu. However, when the highlighted cursor is on the Step Name and the BACK keypad is pressed, the display will jump back to the Modify Cycle Menu and the Segment Name will be highlighted.

Press the BACK keypad to jump to the Save Changes Menu.

Available Characters

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Q	R	S	T	U	V	W	X	Y	Z	a	b	c	d	e	f
g	h	i	j	k	l	m	n	o	p	q	r	s	t	u	v
w	x	y	z	0	1	2	3	4	5	6	7	8	9	!	"
#	$	%	&	'	(	)	*	+	,	-	.	/	:	;	<
=	>	?	@	[	\	]	^	_	`	{	|	}	~	€	‚
ƒ	„	…	†	‡	ˆ	‰	Š	‹	Œ	Ž	‘	’	“	”	•
–	—	˜	™	š	›	œ	ž	Ÿ		¡	¢	£	¤	¥	¦
§	¨	©	ª	«	¬	-	®	¯	°	±	²	³	´	µ	¶
·	¸	¹	º	»	¼	½	¾	¿	À	Á	Â	Ã	Ä	Å	Æ
Ç	È	É	Ê	Ë	Ì	Í	Î	Ï	Ð	Ñ	Ò	Ó	Ô	Õ	Ö
×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß	à	á	â	ã	ä	å	æ
ç	è	é	ê	ë	ì	í	î	ï	ð	ñ	ò	ó	ô	õ	ö
÷	ø	ù	ú	û	ü	ý	þ	ÿ							

Table 2

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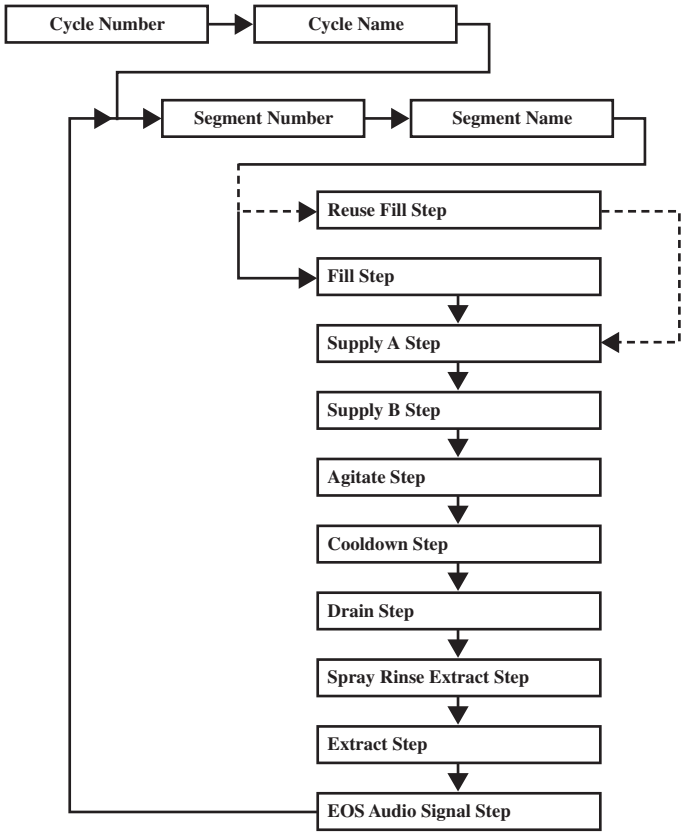
Cycle, Segment and Step Programming Flow Diagram



[1] Reuse Fill Step is not used unless active in the Global Settings.
[2] Supply B Step will not be shown if Supply A step is turned off.

Figure 27

Step Menu Navigation

Step Menus are a subgroup of the Modify Cycle Menu and the navigation is very similar to the navigation of the Modify Cycle Menu. When a step menu is first displayed, the step name will be highlighted. While the step name is highlighted, it can be toggled on or off by pressing the STOP ON/OFF keypad. If the Step is toggled from OFF to ON, then the last programmed parameters will be displayed. The programmable parameters (i.e., water temperature, water level, time, etc.) are based on the step being programmed. For instance, the water temperature is available in the Fill Step but not the Reuse Fill Step, so, the water temperature parameter will not be shown in the Reuse Fill Step.

NOTE: Reuse Fill Step is only available when the different Step parameters can be selected.

Press the → or ← keypad. To view all steps of a segment, continue pressing the → keypad until the EOS Audio Step is displayed. Pressing the → keypad again will take screen to Save Changes Menu. After selection, the cycle modify section is displayed with highlighted box on segment just viewed/changed. Pressing the LCD ↑ or UNLOCK ↓ keypad can adjust the Step Name and parameters.

To adjust time, the user must press the START ENTER keypad to get to the Time Edit Mode. The Time Edit Mode works exactly like the String Edit Mode. The → and ← keypads move the cursor between digits. The LCD ↑ and UNLOCK ↓ keypads change the number.

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To set parameters in the step menus, move highlight box to desired step parameter and press START/ENTER, the LCD and UNLOCK keypads to change values. In menus that do not have many values or items to choose from the vertical arrow keypads will toggle.

NOTE: To change a value, press the LCD or UNLOCK keypad every time a different item is to be selected.

In menus that have many values or items, the user will be able to either toggle or slew the LCD or UNLOCK keypad. Slewing the keypads is when the user holds down a keypad for a specified amount of time and the value automatically scrolls through the parameter being modified. The slewing is based on how much time the user holds down the keypad. If the keypad is held down for longer than 2 seconds the value will begin to scroll.

During the programming of a step, if the BACK keypad is pressed, the display will jump to the Save Changes Menu.

Reuse Fill Step Menu

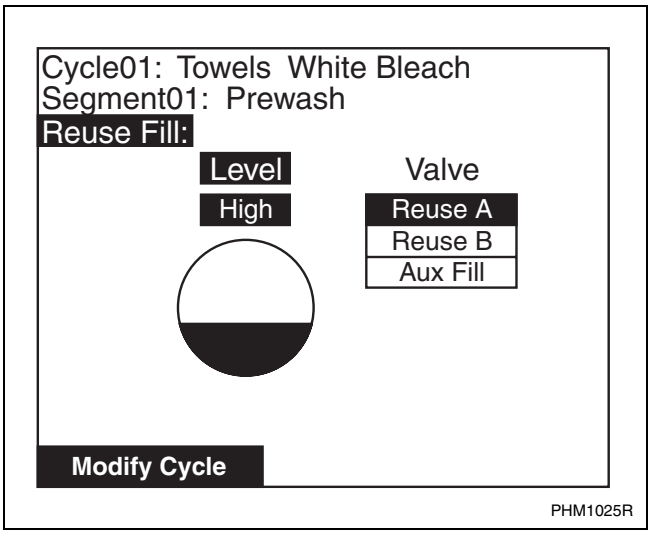

Figure 28

The Reuse Fill Step Menu is used to program the Reuse Fill step while modifying the Cycle. The Reuse Fill Step can only be viewed if the Water Reuse Parameter is turned on (refer to Global Setup Water Management section), and the fill step for the segment is turned off otherwise this step is skipped and not shown. The time for this step is fixed at 5 minutes. The Fill Alarm is not active for this step. However, the control will energize cold fill and spray after five minutes until the water level reaches the programmed level.

The first programmable parameter of the Reuse Fill step is the water level. The target water level is either the programmed global value (High, Medium or Low) or a specific water level value. Global water level values are set in the Water Level Menu (refer to Global Setup, Water Level). For the specific water level value, 1-30 may be selected. The water level can be changed using the LCD and UNLOCK keypads.

The parameter after water level is valve selectors. Reuse Fill A, Reuse Fill B, or both may be activated during the Reuse Fill step. The valve can be selected and deselected by pressing the STOP/ON/OFF keypad. If Reuse Fill A and Reuse Fill B are deactivated, Aux Fill will activate by default. If Water Reuse is enabled, the Aux Fill will be on by default.

Press the BACK keypad to return to Save Changes Menu.

Fill Step Menu

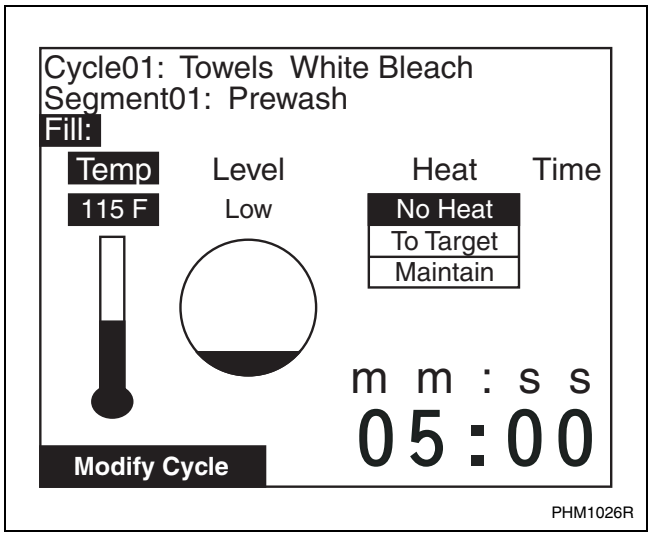

Figure 29

The Fill Step Menu is used to program the fill step. The Fill Step contains the parameters the machine will use when it fills.

Water temperature can be either a global value or a specific temperature. The global settings are Cold (COLD), Warm (WARM), or Hot (HOT). The values for these global settings are set in the Global Setup Temperature Menu. The specific temperature selection can either be in Celsius or Fahrenheit depending on which is chosen in the Global Setup.

The water level can be set to a global value, a specific level from 1 to 30, or to overflow (OVFL). The global settings are Low (LOW), Medium (MED), or High (HIGH).

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The next parameter controls the heater while the machine is actually in the Agitate Step. This parameter is only displayed if a heater is present.

There are three choices on heater equipped machines. The choices are “No Heat”, “To Target”, and “Maintain”. If “No Heat” is selected, the heater will not function during the Agitate Step. If “To Target” is enabled, the heater will turn on in the Agitate Step and reach the desired water temperature. Once the desired water temperature is reached the heater shuts off. If “Maintain” is selected, the heater is turned on and off as necessary throughout the Agitate Step to maintain the desired water temperature.

The time that is programmed refers to the Fill Alarm Time. If the time is set to the global Fill Alarm Time, a “g” will be displayed to the left of the time. The time can be changed to a specific value for an individual cycle by entering Time Edit Mode, using ← and → keypads to navigate between minutes and seconds, and LCD and UNLOCK keypads to change the time. The Fill Alarm Time is the amount of time allowed for fill to complete. If fill is not reached by Fill Alarm Time, the control will enter Error Mode.

The Reuse Fill Step and Fill Step cannot both be enabled in the same segment. If the Reuse Fill Step is enabled then the Fill Step will be turned off.

Press the BACK keypad to enter the Save Changes Menu.

Heater Option

If a Heater is present it can be programmed to heat water during an Agitate cycle step. The Fill step of a cycle segment contains the Heater programming options for that segment. If the Heater is programmed to On in the Fill step of a segment, the Heater is turned on during the Agitate cycle step in order to heat the water to the target temperature specified by the programming information of the segment’s Fill step.

The target temperature can be programmed for the segment in one of two ways. The Fill Step can be programmed to use the Hot, Warm or Cold Global temperature value. The Fill step can also be programmed to a water temperature specific to this segment. During the initial heater on time, the remaining cycle time count-down will pause until the target temperature is reached. If the heater is turned on for more than the Global Heater Alarm time and the desired temperature is not reached, the heater is turned off and the Cycle Stopped Error Menu is displayed prompting for user input. The Heater Error is logged. The user may either abort or continue the cycle. If the Fill Step for this segment is programmed to maintain the heated water temperature, the heater will be turned back on in the Agitate step any time the water temperature has fallen more than five (5) degrees F below the programmed target temperature. If the water level ever falls below the programmed water level, the heater will be turned off until the programmed water level is reached again.

Supply A and B Step Menu

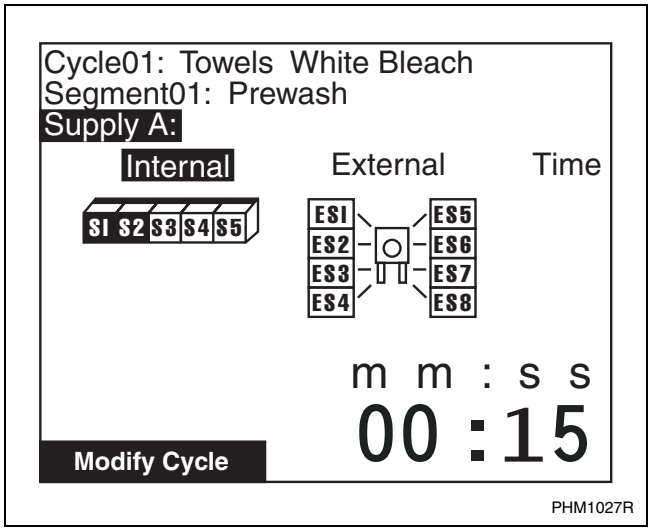

Figure 30

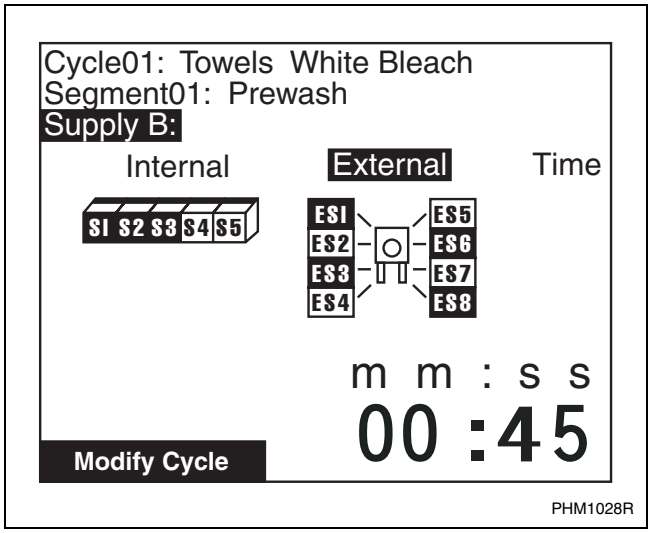

Figure 31

The Supply A and Supply B Step Menus are used to control which supply or supplies that are activated during a Segment and the duration of the dispensing. The Internal Supplies are listed from S1 to S5 and external supplies are numbered ES1 through ES8. Any of the internal, external, or both type of supplies can be turned on or off during Supply Step A or Supply Step B. Any combination of SUPPLIES is possible in both menus.

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The ← and → keypads are used to move the cursor to the different parameters and Internal Supplies 1 through 5. The LCD and UNLOCK keypads are used to move the cursor to the External Supplies 1 through 8. Once a supply has been chosen, it is selected by pressing the STOP ON/OFF keypad. The supply is activated if it is highlighted. The time can be edited for each supply step by moving the highlighter box to time. Press START ENTER . Blinking underline indicates the number is ready to be changed.

Pressing the BACK keypad will jump to the Save Changes Menu.

Agitate Step Menu

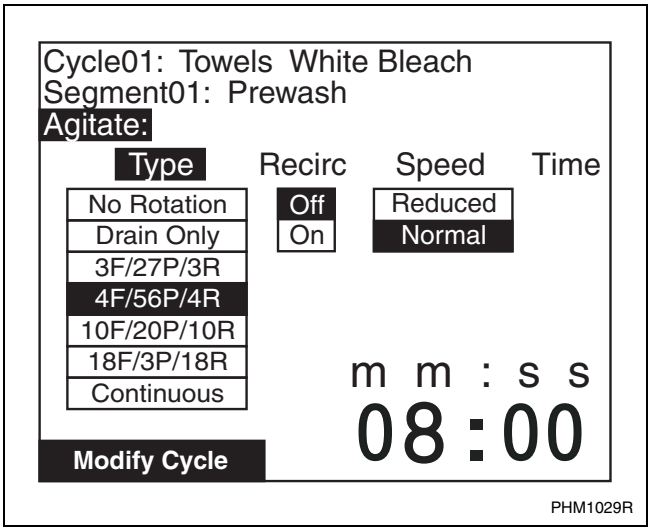

Figure 32

The purpose of the Agitate Step Menu is to program the parameters used while the machine is performing the Agitate Step. The Agitate cycle step can be turned on or off. The type of agitation is the first available parameter. The agitation type parameter menu has seven (7) choices with 18F/3P/18R (18 seconds forward, 3 seconds pause, and 18 seconds reverse) being the default.

The recirculation parameter controls the operation of the recirculation pump during machine operation. The user can either turn it on or off. If the water recirculation option is not enabled in Global Setup parameter, then this parameter will not display. The Wash speed can be programmed to either Normal Wash speed or Reduced Wash speed.

The Agitate step can be programmed to a time from one (1) minute to 30 minutes.

NOTE: If the Agitate type is programmed to a value of "No Rotation", the cycle step time can be programmed to a value from one (1) minute to 24 hours.

Pressing the BACK keypad will jump to the Save Changes Menu.

Cool Down Step Menu

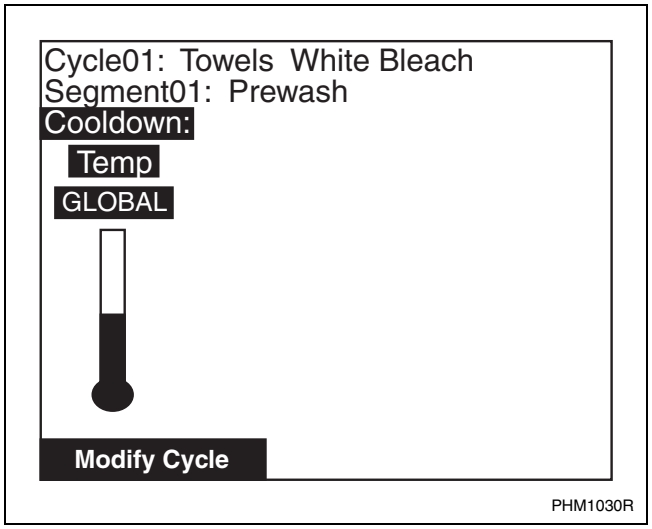

Figure 33

The Cool Down Step Menu gives the user the option to set the Cool Down Option after the Agitation Step. The Cool Down cycle step can be turned on or off. If turned off, the control will advance to the next cycle step (Drain).

The temperature setting allows the user to set the Cool Down temperature of the water after the Agitation Step has ended. The temperature will default to cool down temperature set in Global Setup. To change cool down temperature, press the LCD and UNLOCK keypads.

Press the BACK keypad to jump to the Save Changes Menu.

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Drain Step Menu

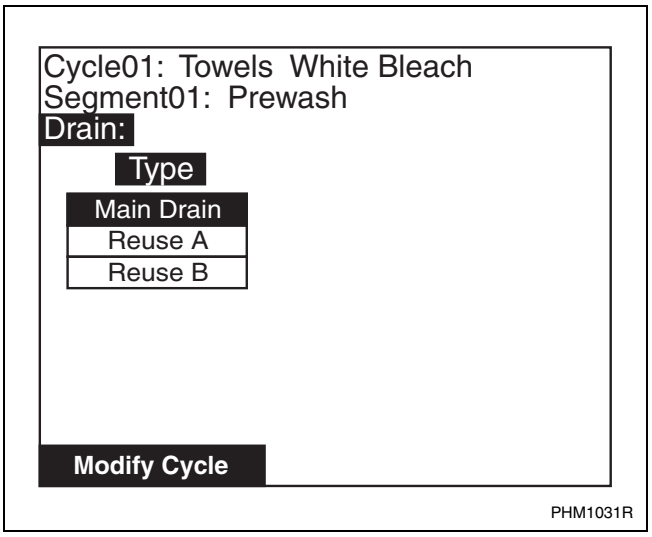

Figure 34

The Drain Step Menu allows the user to activate or deactivate the drain step and control where the water is drained. The Drain cycle step can be turned on or off by pressing the STOP ON/OFF keypad. If turned off, the menu will show that the Spray Rinse Extract and Extract Steps are unavailable for that cycle segment.

If global water reuse is enabled the drain type allows the user the option of pumping the wash water to Reuse A or Reuse B or sending it to the Main Drain. If global water reuse is disabled the screen will show Main Drain only. Using the START ENTER keypad to select Type, press the LCD or UNLOCK keypad to select the drain type. If the Drain Step is turned off, then the Type parameter menu will not be present and the text "Extract steps are disabled" will be displayed. With the Drain Step disabled, the next available segment step would be the EOS Audio Signal Menu.

Press the BACK keypad to jump to the Save Changes Menu.

Spray Rinse Extract Step Menu

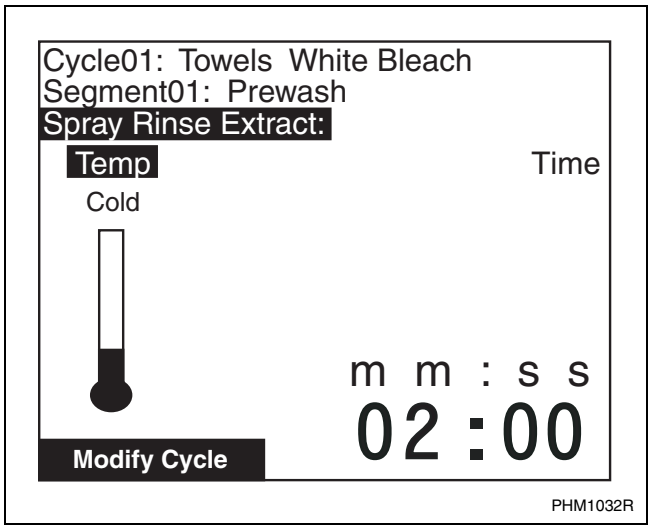

Figure 35

The Spray Rinse Extract Step Menu is used to program the temperature and time for the Spray Rinse Extract Step. The Spray Rinse Extract cycle step can be turned on or off with the STOP ON/OFF keypad. If turned off, the control will advance to the next available cycle step. If Spray Rinse Extract option is not available for the machine, the step will be skipped and control will advance to Extract Step Menu.

The temperature is programmed by selecting the Temp parameter and then using the vertical keys to change the thermometer to Cold, Warm or Hot. The Spray Rinse Extract time is programmed by moving highlight box to Time. Press START ENTER . Blinking underline is located in character ready to be changed. Use LCD and UNLOCK keypads to change number as desired.

Pressing the BACK keypad will jump to the Save Changes Menu.

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Extract Step Menu

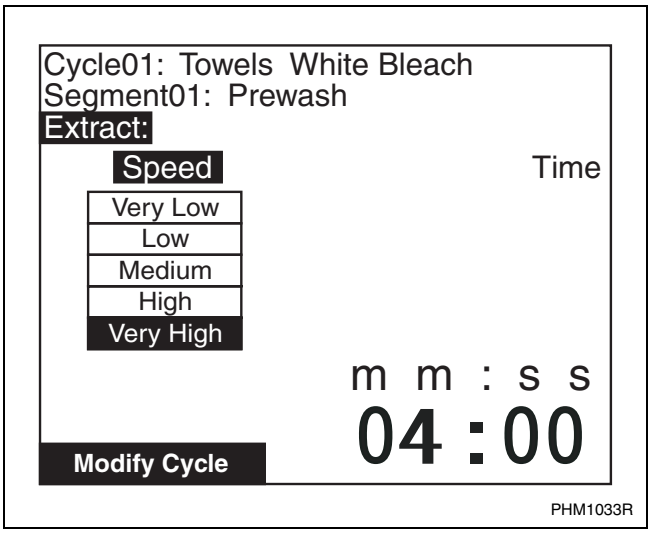

Figure 36

The Extract Step Menu is used to program the motor speed and time for the Extract Step. The Extract Step can be turned on or off by using the STOP ON/OFF keypad. If turned off, the control will advance to End of Segment Audio Signal step. To choose a motor speed, press START ENTER while selecting Speed and use the LCD and UNLOCK keypads to make a selection. The motor speed is selected from the menu bar. The Extract time can be programmed by moving highlighted box to Time. Press START ENTER . Blinking underline will indicate number to change. Use the LCD and UNLOCK keypads to change numbers.

Press the BACK keypad to jump to the Save Changes Menu.

End of Segment Audio Signal Step Menu

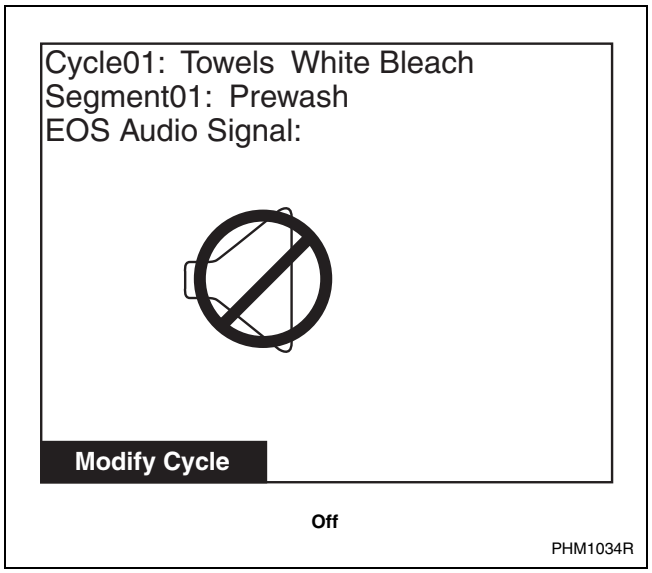

Figure 37

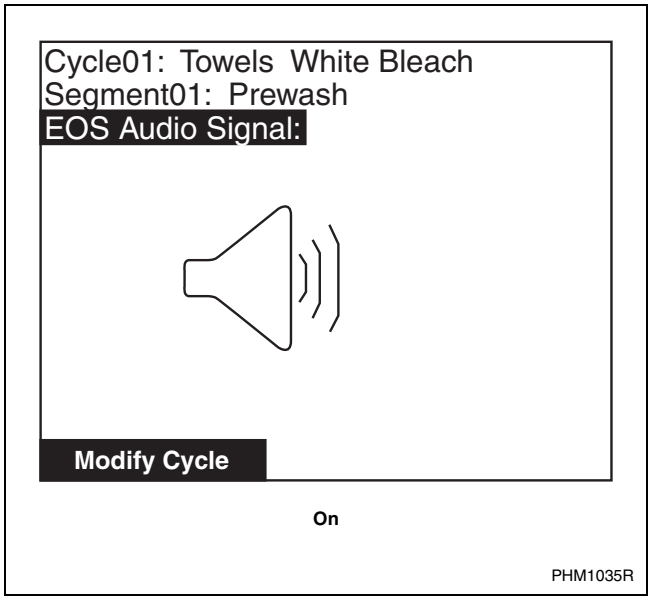

Figure 38

The End of Segment (EOS) Audio Signal Step Menu allows the user to set whether an audio signal is activated at the end of a segment. The End of Segment Audio Signal step can be turned on or off with the STOP ON/OFF keypad. If turned off, the control will advance to the next cycle step (start of the next segment, or the end of the cycle).

Press the BACK keypad to enter the Save Changes Menu.

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Global Setup

Global Setup Menu

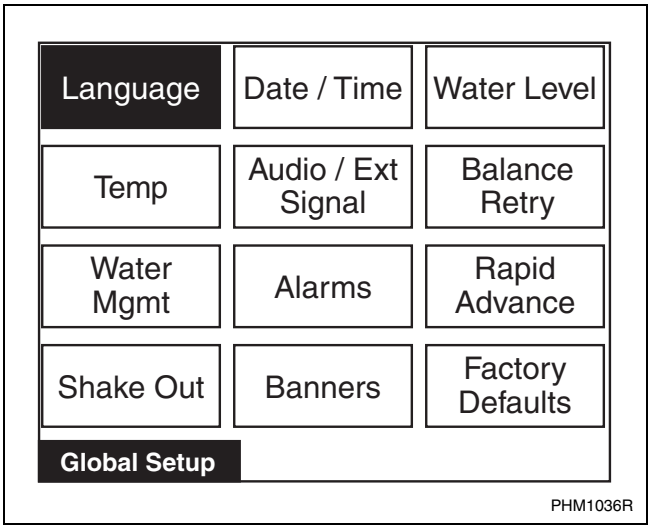

Figure 39

The Global Setup Menu allows the user to make changes to global properties of the machine. Use the ←, →, LCD, and UNLOCK keypads to navigate the menu. Select a menu item by pressing the START/ENTER keypad. Press the BACK keypad to enter the Program Menu.

Language Menu

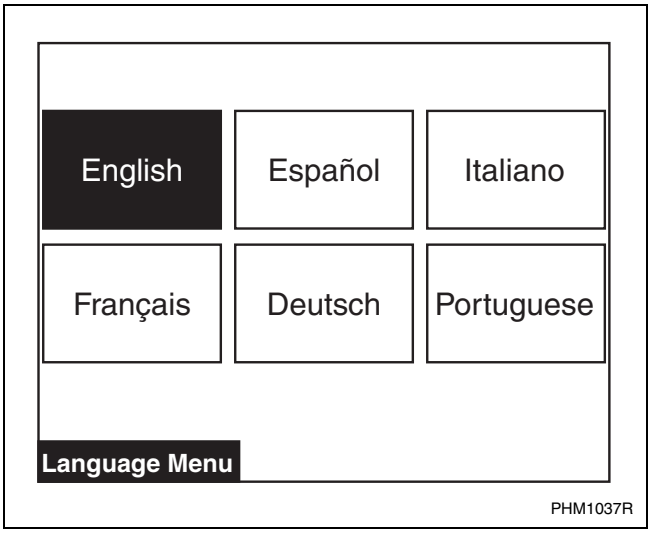

Figure 40

The Language Menu is used to select the language displayed. The user can choose English, Spanish, Italian, French, German or Portuguese.

Press the ←, →, LCD, or UNLOCK keypad to move the highlighted box through the different selections. English is the default language.

NOTE: Menus related to cycle operation are the only menus that will display in the chosen language if English is not selected. All System Menu sub-menus will remain in English.

Press START/ENTER to select a language. The Save Changes Menu will display.

Press ← or → to move highlighted box to "Yes" or "No".

Press the START/ENTER keypad to return to Global Setup Menu. If no changes were made, press the BACK keypad to return to Global Setup Menu.

Date/Time Menu

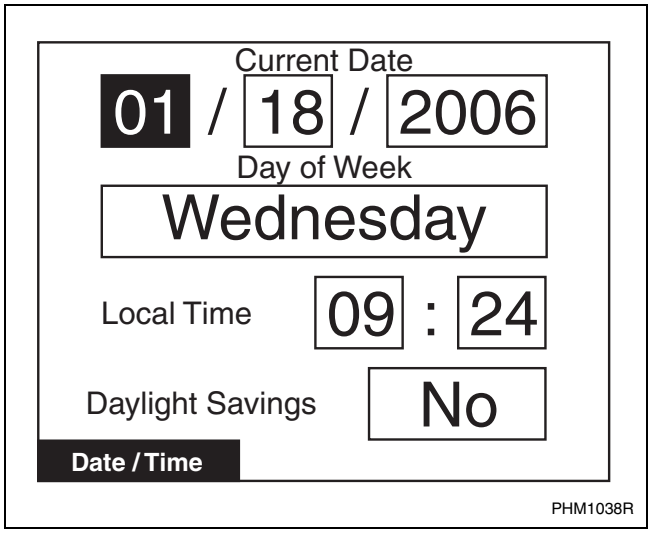

Figure 41

The Date/Time Menu is used to set the date, day of the week, time, and daylight saving option.

Press ← and → keypads to move the highlighted box through the different items in the menu. Once the item is highlighted, the value can be changed by using the LCD and UNLOCK keypads. The Save Changes Menu will display. Use ← or → to move highlighted box to "Yes" or "No".

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Press the START/ENTER keypad to return to Global Setup Menu. If no changes were made, press the START/ENTER or BACK keypad to return to Global Setup Menu.

The control's Clock will automatically adjust for leap-year. The control may be programmed for automatic daylight saving adjustment. If the Daylight Saving option is disabled, no adjustment takes place. If it is enabled, on the second Sunday in March, the time will spring forward from 1:00 AM to 2:00:00 AM. On the first Sunday in November, the time falls back from 2:00:00 AM to 1:00:00 AM.

Daylight Saving can be enabled or disabled by moving highlighted box to Daylight Saving and pressing LCD or UNLOCK to Yes or No. The Save Changes Menu will display. Use ← or → to move highlighted box to "Yes" or "No". Press START/ENTER keypad to return to Global Setup Menu. If no changes were made, press START/ENTER or BACK keypad to return to Global Setup Menu. The factory-default value for daylights saving is enabled.

Water Level Menu

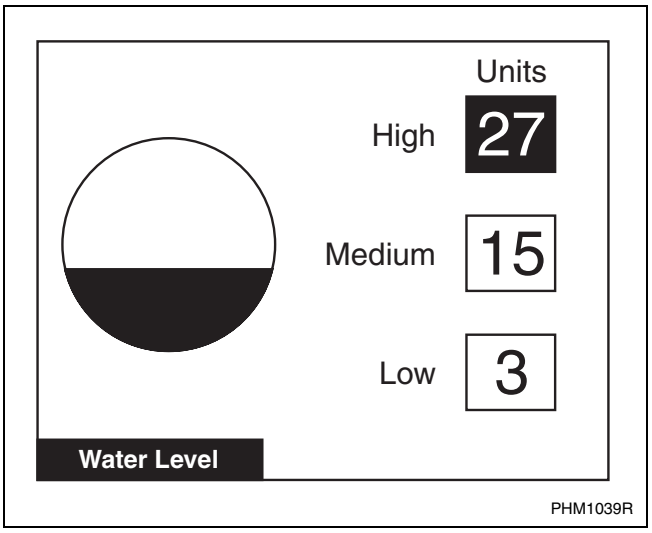

Figure 42

The Water Level Menu sets the different global water level settings. The value of the water level is a percentage of the machine maximum water level, which is in 30 equal parts or levels. In the 30 different settings, the image will contain three different regions. The regions are found in *Table 3*.

Water Level	Value
Low (20%)	01-10
Medium (30%)	11-20
High (40%)	21-30

Table 3

The water level settings will apply to all cycles that are programmed using low, medium or high in the water level setting.

The ← and → keypads are used to move the highlighted box through the different items in the menu. Once the item is highlighted, the value can be changed by using the LCD and UNLOCK keypads. The Save Changes Menu will display. Use ← or → to move highlighted box to "Yes" or "No". Press START/ENTER keypad to return to Global menu. If no changes were made, press START/ENTER or BACK keypad to return to Global Setup Menu.

Temperature Menu

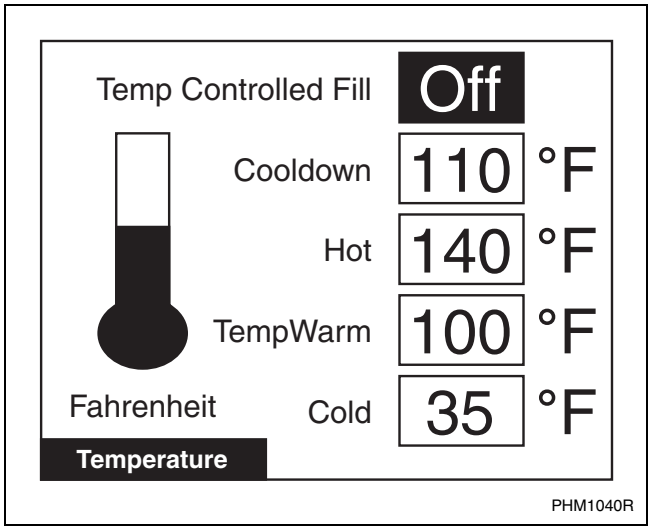

Figure 43

The Temperature Menu sets the different global temperature settings. The unit of the temperature can be changed between Fahrenheit and Celsius. The temperature settings will apply to all cycles that are programmed using COLD, WARM, and HOT in the temperature setting. The Temperature Controlled Fill option will allow the user, with a temperature sensor present, to chose whether to run the machine with Temperature controlled Fill On or Off.

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Press ← and → keypads to move the highlighted box through the different items in the menu. Once the item is highlighted, press the LCD and UNLOCK keypads to change the values.

Press the START ENTER or BACK keypad to jump to the Save Changes Menu.

Use ← or → to move highlighted box to “Yes” or “No”.

Press the START ENTER keypad to return to Global Setup Menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

Audio Menu

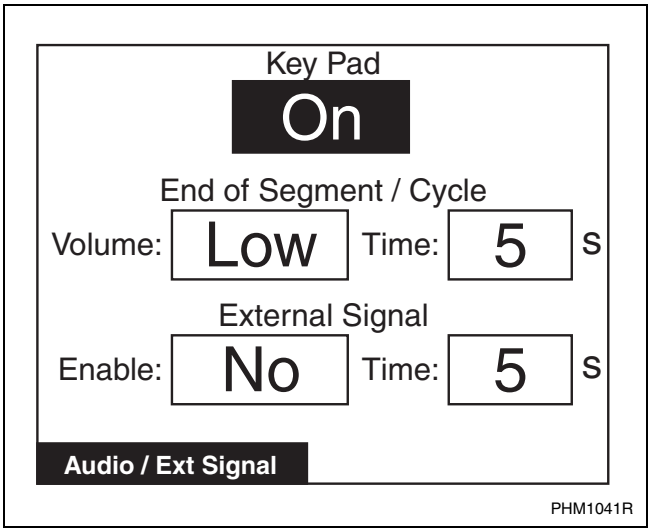

Figure 44

The Audio/External Signal Menu sets the audio options of the keypad audio feedback, the beeper volume and the External Signal.

Press the ← and → keypads to move the highlighted box through the different items in the Audio Menu.

Once the item is highlighted, press the LCD and UNLOCK keypads to change the value. Press the START ENTER or BACK keypad to return to the Save Changes Menu if changes were made.

Press the ← or → keypad to move highlighted box to “Yes” or “No”. Press START ENTER keypad to return to Global Setup Menu. If no changes were made, press START ENTER or BACK keypad to return to Global Setup Menu.

Balance Retry Menu

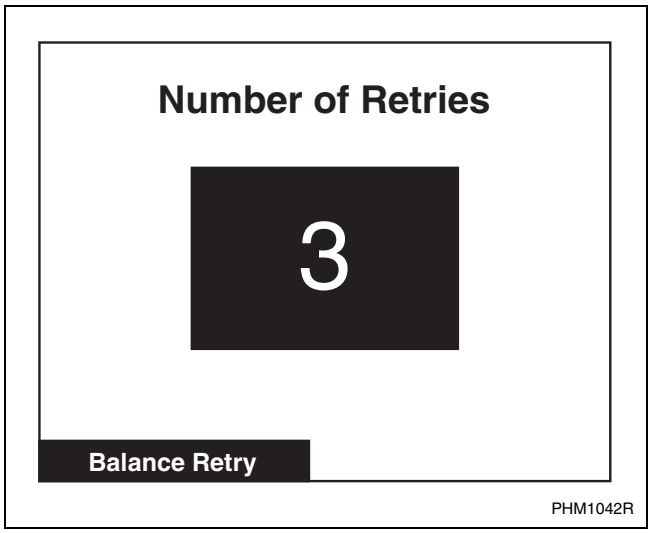

Figure 45

The Balance Retry Menu sets the option of how many retries the machine will attempt to rebalance a load before an alarm is set. The user will be able to select a value from one (1) to seven (7).

Press the LCD or UNLOCK keypad to change number of balance retries.

Press the START ENTER or BACK keypad to jump to the Save Changes Menu. Press the ← or → keypad to move highlighted box to “Yes” or “No”.

Press the START ENTER keypad to return to Global Setup menu. If no changes were made, press START ENTER or BACK keypad to return to Global Setup Menu.

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Water Management Menu

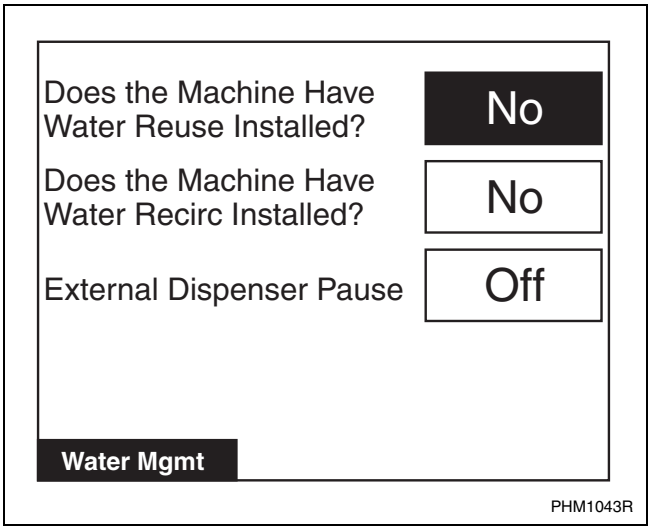

Figure 46

The Water Management Menu allows the user to set the water reuse and water recirculation options to Yes or No. If water reuse option is turned off, the Reuse Fill Menu will not be displayed during programming of a Segment. Press the ← and → keypads to move the highlighted box through the two different items in the Water Management Menu. Press the LCD or UNLOCK keypad to change selections to “Yes” or “No”.

Press the START ENTER or BACK keypad to jump to the Save Changes Menu. Use ← or → to move highlighted box to “Yes” or “No”.

Press the START ENTER keypad to return to Global Setup Menu. If no changes were made, press START ENTER or BACK keypad to return to Global Setup menu.

The user can set the External Dispenser Pause On or Off. The control default for this option is “Off”. If programmed on, the control will wait with a normally open contact for contact closure to indicate the need for a pause in cycle operation.

Alarms Program Menu

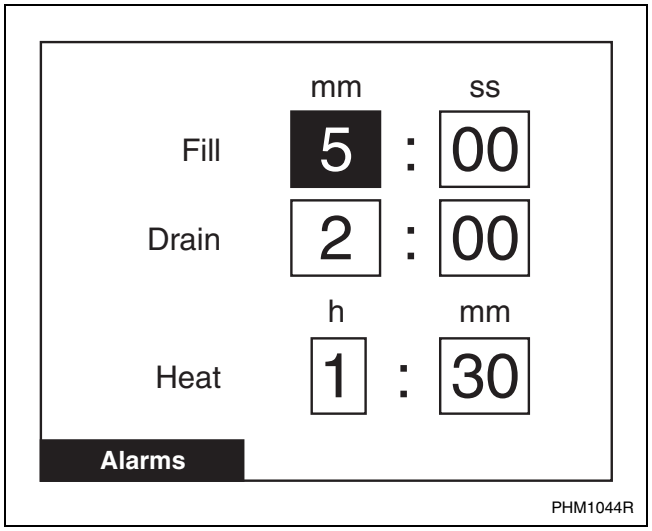

Figure 47

The Alarms Program Menu is used to set the fill, drain, and heat alarm times.

The ← and → keypads are used to move the highlighted box through the different items in the Alarm Program Menu. Once the item is highlighted, the value can be changed by using the LCD and UNLOCK keypads. Pressing the START ENTER or BACK keypad will jump to the Save Changes Menu. Use ← or → to move highlighted box to “Yes” or “No”. Press the START ENTER keypad to return to Global Setup menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

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Rapid Advance Menu

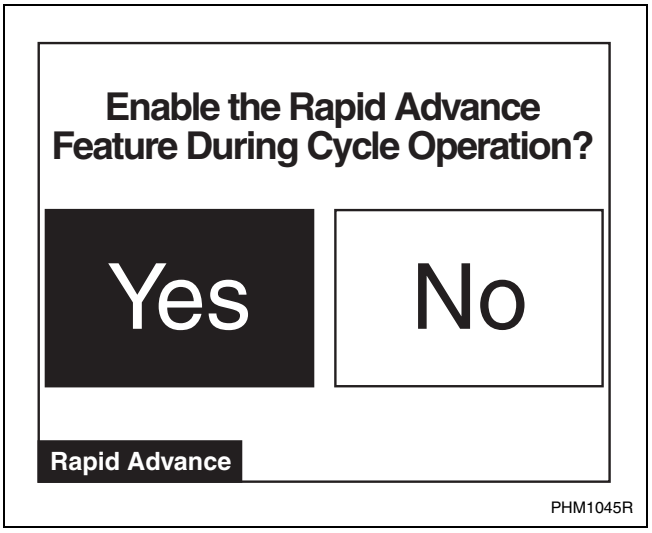

Figure 48

The Rapid Advance Menu has the option of whether the user will be able to rapid advance through steps while the machine is operating. Press the LCD UNLOCK keypad or keypad to change the selection. All the keypads have the same effect and will toggle the selection between on or off. Press the START ENTER or BACK keypad to jump to the Save Changes Menu. Use keypad or keypad to move highlighted box to "Yes" or "No". Press START ENTER keypad to return to Global Setup Menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

If the Rapid Advance Option is enabled (refer to Global Setup, Rapid Advance section), the user can advance a running machine cycle with presses of the START ENTER keypad. When the START ENTER keypad is pressed, the control will immediately show the next cycle step in the Run Menu but will not change the outputs for a period of at least five (5) seconds. The user may advance into any cycle step except the Spray Rinse Extract and Extract Steps. If the control is executing a Drain step and the user presses START ENTER to execute a Rapid Advance, the control will skip over the Extract Step. When the cycle is completed, the audit counter, Total Rapid Advance Cycles is incremented rather than the Total Machine Cycles audit counter. In addition this cycle is recorded in the audit list "Last 25 Machine Cycles Completed" and the audit list "Last 10 Machine Cycles Rapid Advanced/Aborted." Refer to ***UniLinc PC and PDA Application User Instructions*** for additional information on using a PDA.

In the Run Menu, the total remaining cycle time is reduced by the corresponding advance step time if programmed. If the Rapid Advance Option is disabled preventing a manual Rapid Advance, the user may still execute a Rapid Advance using the PDA.

Shakeout Menu

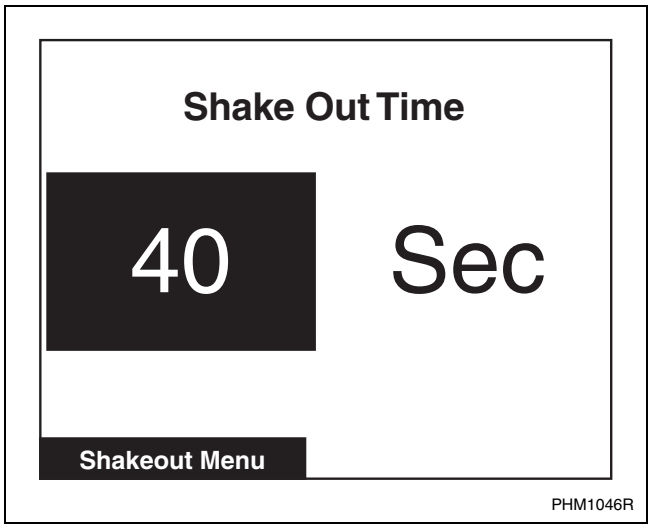

Figure 49

The Shakeout Menu is used to set the Shakeout time after the Extract Step. The LCD and UNLOCK keypads adjust the time. The time can be set from 0-120 seconds in increments of 20 seconds.

Press the START ENTER or BACK keypad to enter the Save Changes Menu. Press keypad or keypad to move highlighted box to "Yes" or "No". Press the START ENTER keypad to return to Global Setup Menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

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Banners Menu

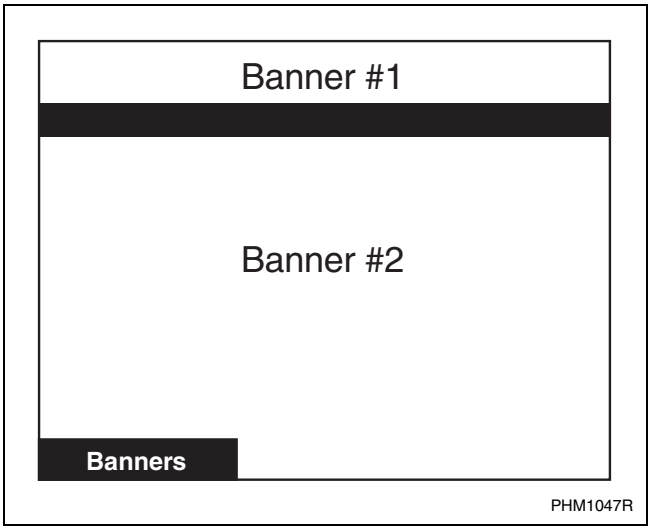

Figure 50

The Banners Menu is used to create or modify the banners that are displayed while the machine is on the Cycle Menu. The banners are displayed at the top of the screen.

The banners are created or modified using the String Edit Mode. Refer to Program Menu, Modify Cycle section. Use the LCD or UNLOCK keypad to highlight the different lines and press the START ENTER keypad to edit the string. Pressing the BACK keypad will jump to the Save Changes Menu. Use ← or → to move highlighted box to “Yes” or “No”. Press the START ENTER keypad to return to Global Setup Menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

Factory Defaults Menu

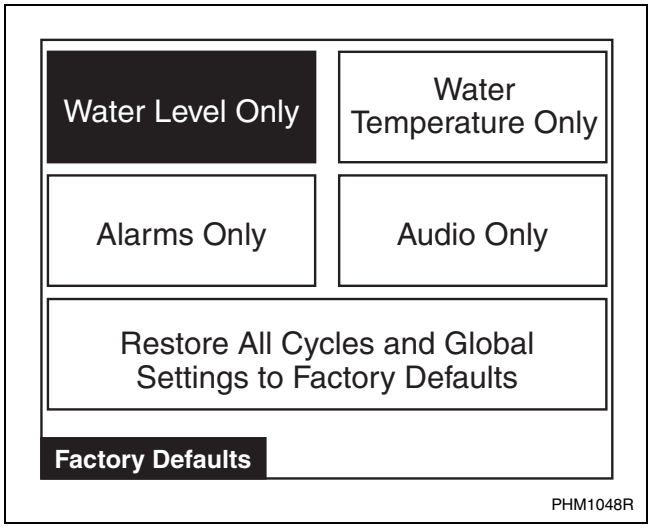

Figure 51

The Factory Defaults Menu is used to set parameters in the software back to the factory default. Several parameters can be set individually back to the factory settings and all Cycles and Global settings can be restored. The individual parameters that can be set back to the factory settings are the water level, water temperature, alarms, and audio settings.

Press the directional keys to navigate through the screen. Press the START ENTER keypad to make a selection. Once the START ENTER keypad is pressed, Save Changes Screen displays. Use ← or → to move highlighted box to “Yes” or “No”. Press the START ENTER keypad to return to Global Setup menu. If no changes were made, press the START ENTER or BACK keypad to return to Global Setup Menu.

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Water Level Confirmation Menu

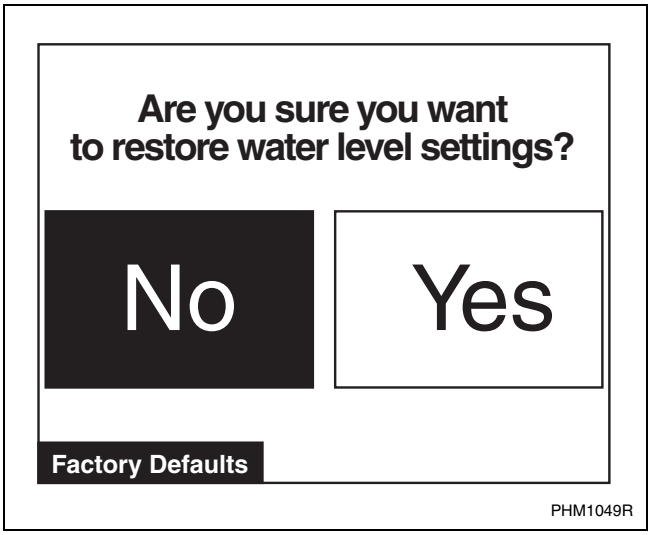

Figure 52

The Water Level Confirmation Menu is used to confirm that water levels are to be set back to factory defaults. This screen is displayed when the Water Level Only option is selected in the Factory Defaults Menu. Once the confirmation is chosen the display will jump back to the Factory Defaults Menu. “No” is selected by default.

Water Temperature Confirmation Menu

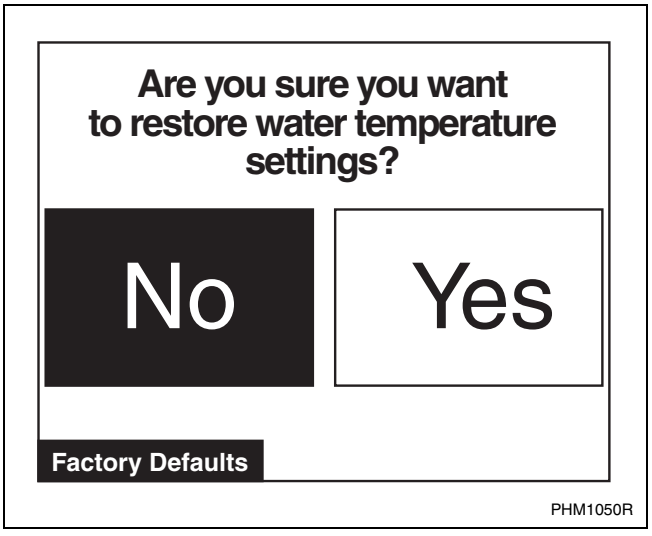

Figure 53

The Water Temperature Confirmation Menu is used to confirm that water temperatures are to be set back to factory defaults. This screen is displayed when the Water Temperature Only option is selected in the Factory Defaults Menu. Once the confirmation is chosen the display will jump back to the Factory Defaults Menu. “No” is selected by default. Use or to move highlighted box to “Yes” or “No”. Press the keypad to return to Global Setup Menu.

Alarms Confirmation Menu

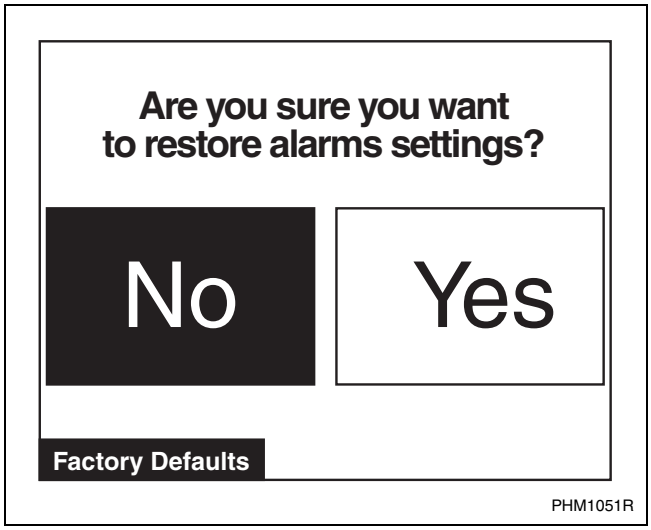

Figure 54

The Alarms Confirmation Menu is used to confirm that the alarms are to be set back to factory defaults. This screen is displayed when the Alarms Only option is selected in the Factory Defaults Menu. Once the confirmation is chosen the display will jump back to the Factory Defaults Menu. “No” is selected by default.

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Audio Confirmation Menu

Figure 55

The Audio Confirmation Menu is used to confirm that the audio is to be set back to factory defaults. This screen is displayed when the Audio Only option is selected in the Factory Defaults Menu. Once the confirmation is chosen the display will jump back to the Factory Defaults Menu. “No” is selected by default.

Reset All Factory Defaults Confirmation Menu

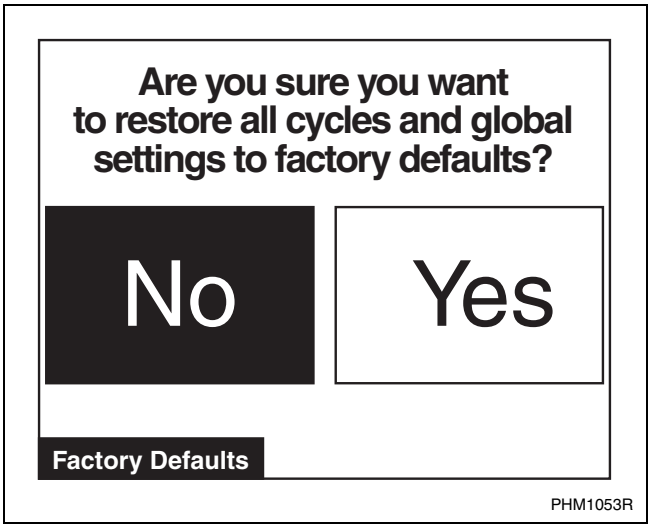

Figure 56

The Reset All Factory Defaults Confirmation Menu is used to confirm that the global programming parameters and Cycle #1-41 are to be set back to factory defaults. This screen is displayed when the Restore All Cycles and Global Settings to Factory Defaults option is selected in the Factory Defaults Menu. If “No” is selected the display will jump back to the Factory Defaults Menu. If “Yes” is selected the display will jump to the Factory Defaults Second Confirmation Menu. “No” is selected by default.

Factory Defaults Second Confirmation Menu

Figure 57

The Factory Defaults Second Confirmation Menu is to ensure that the factory defaults do not get accidentally reset. Press the BACK keypad to abort and the display will then show the Factory Defaults Menu.

Press START ENTER keypad to select “Yes” or “No”.

Selecting “Yes” will restore all the factory settings and take the user back to the Global Settings Menu. Selecting “No” will take the user back to the Factory Defaults Menu.

(Continued)

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Diagnostic

Diagnostic Menu

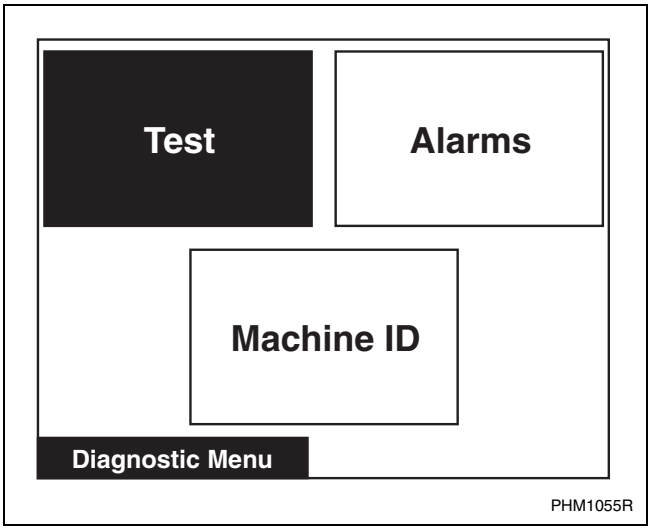

Figure 58

The Diagnostic Menu contains Test, Alarm and Machine ID Menus. The menus contain specific diagnostic information and manufacturing data for the machine. The ← → LCD and UNLOCK keypads position the highlighted box. Press the START ENTER keypad to select the menu choice.

Press the BACK keypad while in the Diagnostic Menu to return to System Menu.

Test Menu

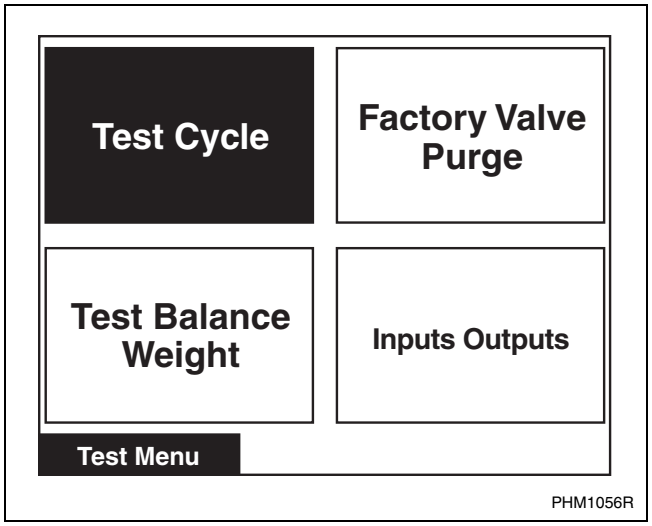

Figure 59

The Test Menu provides features for manufacturing and customer service testing. The highlighted box is moved horizontally and vertically using the ← → LCD and UNLOCK keypads. Press the START ENTER keypad to select the menu choice.

Press the BACK keypad to return to Diagnostic Menu.

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Test Cycle

STEP	Test Cycle Step	Displayed Description	STEP ADVANCE	COMMENTS
1	Keypad Test Step	FEC and Output Board S/W versions and “Press Each Keypad To Advance”	Advance after all keypads depressed.	
2	Door and Lock Test Step and Frame Balance Switch Calibration	“Door and Lock Status”	Advance with any keypad except UNLOCK	
3	Display Test Step	“Press Any Keypad To Advance Through Screen Test”	Keypress	
4	Display Test Step #1	Screen is blank	Keypress	
5	Display Test Step #2	Horizontal Bars	Keypress	
6	Display Test Step #3	Horizontal Bars (inverted)	Keypress	
7	Display Test Step #4	Screen is gray	Keypress	
8	Hot Fill to Low Level	“Hot Fill To Low”	Keypress	All outputs turned off when Low Level reached
9	Cold Fill to Low Level	“Cold Fill To Low”	Keypress	All outputs turned off when Low Level reached
10	Warm Fill to Low Level	“Warm Fill To Low”	Keypress when Low Level is reached	All outputs turned off when Low Level reached
11	Warm Fill to High Level	“Warm Fill to High”	Keypress when High Level is reached	All outputs turned off when High Level reached
12	External Supply #1 Wash Speed Agitate	“External Supply #1”	Keypress	
13	External Supply #2 Wash Speed Agitate	“External Supply #2”	Keypress	
14	External Supply #3 Wash Speed Agitate	“External Supply #3”	Keypress	
15	External Supply #4 Wash Speed Agitate	“External Supply #4”	Keypress	
16	External Supply #5 Wash Speed Agitate	“External Supply #5”	Keypress	
17	External Supply #6 Wash Speed Agitate	“External Supply #6”	Keypress	
18	External Supply #7 Wash Speed Agitate	“External Supply #7”	Keypress	
19	External Supply #8 Wash Speed Agitate	“External Supply #8”	Keypress	
20	Int Supply #1 Wash Speed Agitate	“Internal Supply #1”	Keypress	
21	Int Supply #2 Wash Speed Agitate	“Internal Supply #2”	Keypress	

Table 4 (Continued)

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Table 4 (Continued)

STEP	Test Cycle Step	Displayed Description	STEP ADVANCE	COMMENTS
22	Int Supply #3 Wash Speed Agitate	“Internal Supply #3”	Keypress or 30 seconds	
23	Internal Supply #4 Wash Speed Agitate	“Internal Supply #4”	Keypress or 30 seconds	
24	Warm Fill to Overflow Reduced Wash Speed Agitate	“Cold Fill To Overflow”	Keypress	
25 (*1)	Heat water to 110F Reduced Wash Speed Agitate	“Heat Water to 110F”	Keypress	All outputs turned off when temperature reached.
26	Reduced Wash Speed Forward with no agitation action.	“Reduced Wash Speed”	Keypress	
27	Wash Speed Forward with no agitation action.	“Wash Speed Forward”	Keypress	
28	Wash Speed Reverse with no agitation action.	“Wash Speed Reverse”	Keypress	
29	Drain Distribution Speed	“Drain”	Keypress when empty	
30	Extract Speed #1 “very low”	“Extract Speed 1”	Keypress	
31	Extract Speed #2 “low”	“Extract Speed 2”	Keypress	
32	Extract Speed #3 “medium”	“Extract Speed 3”	Keypress	
33	Extract Speed #4 “high”	“Extract Speed 4”	Keypress	
34	Extract Speed #5 “very high”	“Extract Speed 5”	Keypress	
35 (*3)	Audio Signal	“Audio Signal”	Keypress or 5 seconds	Step skipped if Global Audio Signal and Global External Signal is disabled.
36	Coast Time	“Coast”		

Table 4

* Step is skipped if no heater in machine.

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Factory Valve Purge Menu

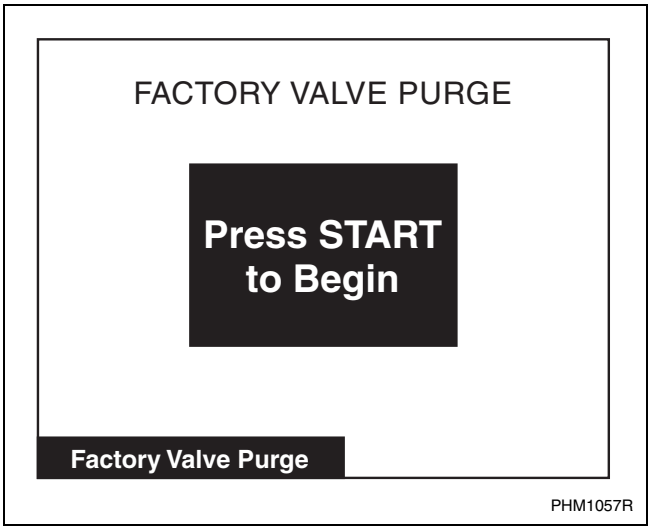

Figure 60

The Factory Valve Purge Menu is used to allow the factory to purge all the valves inside the machine after the machine has been manufactured and tested.

Press the START ENTER keypad to activate the step. The step will run for five (5) minutes unless the STOP ON/OFF keypad is pressed.

Test Balance Weight Menu

Figure 61

The Test Balance Weight Menu is used to check and display the current machine balance type and its status. The machine must be equipped with a variable frequency motor drive. The display shows balance types and corresponding switch states: CLOSED, 1 Hz, 2 Hz, 3 Hz, or OPEN. The START ENTER keypad initiates the test. Press the STOP ON/OFF or BACK keypad to end the test. A UNLOCK key press command will be recognized while the test is not in operation. Press the STOP ON/OFF or BACK keypad again and the display to return to the Test Menu.

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Inputs Outputs Menu

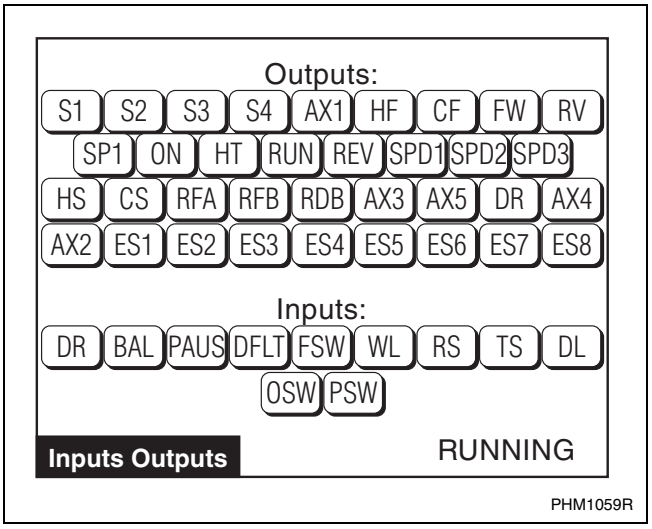
Outputs:
S1 S2 S3 S4 AX1 HF CF FW RV
SP1 ON HT RUN REV SPD1 SPD2 SPD3
HS CS RFA RFB RDB AX3 AX5 DR AX4
AX2 ES1 ES2 ES3 ES4 ES5 ES6 ES7 ES8
Inputs:
DR BAL PAUS DFLT FSW WL RS TS DL
OSW PSW
Inputs Outputs
RUNNING
PHM1059R

Figure 62

When the Inputs Outputs Menu is accessed through the Diagnostic Menu, the user can change outputs. The Close Door Menu will come up if the door is not closed. The user can scroll through the outputs using any of the arrow keys, the cursor is indicated by flashing the active output on the screen. The user must "setup" the outputs to be turned on. The STOP ON/OFF keypad is used to toggle individual outputs to be turned on or off. After the START ENTER keypad is pressed the control will turn the selected outputs on and display the text "RUNNING". The outputs cannot be toggled until the STOP ON/OFF keypad is pressed. The text "RUNNING" is no longer displayed. The screen will still show the selected outputs on the screen and the user can again toggle outputs to be turned on or off. If the BACK keypad is pressed at any time during this test, the control will turn off all outputs if the test is running or return to the previous screen if the test is not running.

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Abbreviations for the Inputs and Outputs are defined in the following table:

Outputs	
AX1	Auxiliary Fill or Internal Supply 5
AX2	Unused
AX3	Recirculation or Reuse Drain A
AX4	External Signal (Optional Audio)
AX5	Reuse Wash Drain
CF	Cold Fill
CS	Cold Spray
DN	Drain
DR	Door Unlock
ES1	External Supply 1
ES2	External Supply 2
ES3	External Supply 3
ES4	External Supply 4
ES5	External Supply 5
ES6	External Supply 6
ES7	External Supply 7
ES8	External Supply 8
FW	Forward Motor Contactor
HF	Hot Fill
HS	Hot Spray
HT	Heater
RDB	Reuse Drain B
REV	VF Motor Drive Reverse
RFA	Reuse Fill A

Outputs	
RFB	Reuse Fill B
RUN	VF Motor Drive Forward
RV	Reverse Motor Contactor
S1	Internal Supply 1
S2	Internal Supply 2
S3	Internal Supply 3
S4	Internal Supply 4
SP1	Extract Motor Contactor
SPD1	VF Motor Drive Speed Select #1
SPD2	VF Motor Drive Speed Select #2
SPD3	VF Motor Drive Speed Select #3

Inputs	
BAL	VF Drive Balance
DFLT	Drive Fault
DL	Door Lock
DR	Door
FSW	Frame Balance Switch
OSW	Optional Switch (UW150 Joggle)
PAUS	External Dispenser Pause A and/or B
PSW	Low Level Pressure Switch
RS	Rotation Sensor (Non-Zero RPM)
TS	Thermostat (Temp Satisfied)
WL	Water Level (Level Satisfied)

Table 5

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Alarms

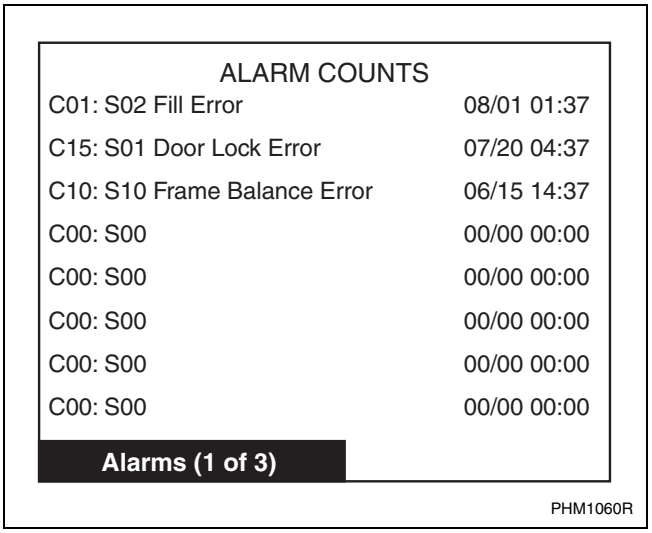

Figure 63

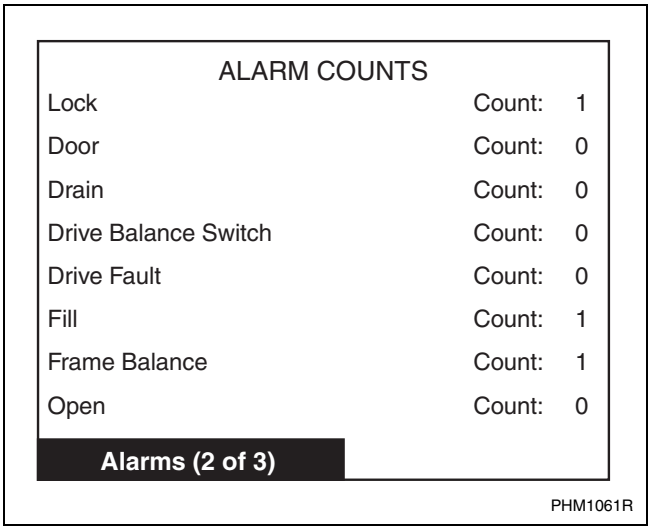

Figure 64

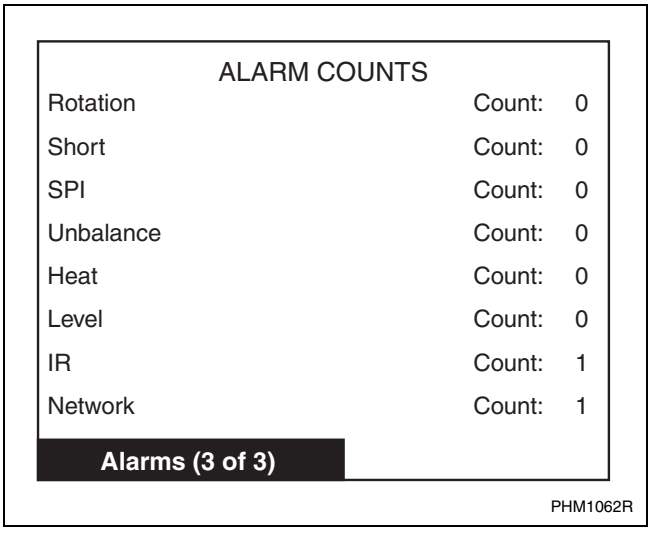

Figure 65

The Alarms Menu contains three screens of information. On the first screen, Alarms (1 of 3), the eight most recent alarms will contain Cycle Number, Segment Number, Step, Alarm Type, and the Date/ Time of the Alarm.

The second screen, Alarms (2 of 3), alarm counts list 1 through 8. Alarm counts consist of how many times a specific alarm has occurred.

The third screen, Alarms (3 of 3), this is a continuation of the alarm counts 9 through 14.

Press the ← or → keypad to navigate to the different screens in the Alarms Menu. Press the ← keypad to go from screen 1 to screen 3. The actual menus are informational only and cannot be navigated. Press the BACK keypad to return to display to Diagnostic Menu or the Run Diagnostic Menu.

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Machine Identification

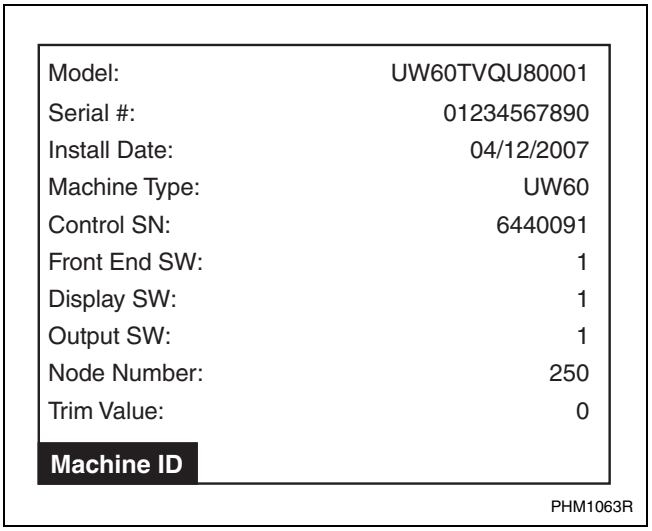

Figure 66

The Machine ID Menu provides several different types of manufacturing and machine information that can be useful to the user, chemical supplier, and technician. The Machine ID Menu cannot be navigated. Pressing the BACK keypad will return to Diagnostic Menu or the Run Diagnostic Menu.

Machine Errors

The control displays and logs errors as they occur. When the control senses the error condition, the audit counter for that error increases by one. The control saves the time and date of the last eight (8) errors which have occurred. Following is a list of possible errors:

Door Lock Error

If the control senses an unlocked loading door during a cycle, the control will abort the machine cycle, display the Cycle Aborted Error Menu and record and count the Door Lock Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Lock” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

Door Open Error

If the control senses an open loading door during a cycle as described, the control will abort the machine cycle, display the Cycle Aborted Error Menu and record and count the Door Open Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Door” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

Drain Alarm Error

When the Drain Alarm time is exceeded, the control will stop the cycle, display the Cycle Stopped Error Menu and count and store the Total Drain Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Drain” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Stopped Error Menu is displayed alternating with the Run Menu (3 seconds Error Menu/3 seconds Run Menu) with the Alarm on until the appropriate user input occurs. The user can continue or abort the machine cycle.

Drive Balance Switch Error

If the control detects the Variable Frequency Drive (VFD) Balance Switch input as closed at the start of a Drain step, the control will cause a Drive Balance Switch error. The control will abort the machine cycle, display the Cycle Aborted Error Menu and record and count the Drive Balance Switch Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Drive Balance Switch” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

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Drive Fault Error

If the control detects the VFD Fault Switch input as open, the control will log a Drive Fault error and increment the Drive Fault Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Drive Fault” on the Alarms (2 of 3) Menu for the total error count.

Fill Alarm Error

When the Fill Alarm time is exceeded, the control will stop the cycle and display the Cycle Stopped Error Menu and count and store the Total Fill Errors audit counter. The control saves the error type, cycle, segment and step in which it happened, the date and the time on the Alarms (1 of 3) Menu. View “Fill” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Stopped Error Menu is displayed alternating with the Run Menu (3 seconds Error Menu/ 3 seconds Run Menu) with the Alarm on until the appropriate user input occurs. The user is given the option of continuing or stopping the machine cycle.

Frame Balance Switch Error

If the control detects a Frame Balance Switch error during a cycle, the control will abort the machine cycle, display the Cycle Aborted Error Menu and count and record the Frame Balance Switch Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Frame Balance” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of powering down the machine to service the Frame Balance Switch error condition.

Open Temperature Sensor Error

If the control senses a temperature less than 5 F in a machine equipped with a temperature sensor, the control will abort the machine cycle, display the Cycle Aborted Error Menu and record and count the Open Thermistor Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Open” on the Alarms (2 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

Rotation Sensor Error

If the control senses an invalid signal from the Rotation Sensor, the control will continue normal machine operation as if it had no Rotation Sensor (load Coast Times), and count and record the Rotation Sensor Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Rotation” on the Alarms (3 of 3) Menu for the total error count. The machine cycle will continue with coast times loaded where rotation detection is required. It will operate this way until any loaded coast time has been allowed to expire and the machine power has been reset. When power is reset, the machine will acknowledge that it has a rotation sensor equipped and return to normal operation.

Shorted Temperature Sensor Error

If the control senses a temperature greater than 220 F in a machine equipped with a temperature sensor, the control will abort the machine cycle, display the Cycle Aborted Error Menu and increment the Shorted Thermistor Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Short” on the Alarms (3 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

SPI Error

If the control is unable to communicate with the Output Board the control will abort the machine cycle, display the Cycle Aborted Error Menu and increment the SPI Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “SPI” on the Alarms (3 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

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Unbalance Error

If the control detects an unbalanced load during a cycle, the control will run the subsequent Spray Rinse Extract and Extract steps but only at a reduced speed and will continue the machine cycle. When the machine cycle is completed, the control will not display an error but will increment the Unbalance Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. The machine cycle has already ended and the user is only given the option of unlocking/opening the door and returning to the Cycle Menu. View “Unbalance” on the Alarms (3 of 3) Menu for the total error count.

Heat Alarm Error

When the Heat Alarm time is exceeded, the control will stop the cycle, display the Cycle Stopped Error Menu and count and record the Total Water Heater Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. The audio signal will also be turned on for the error condition. The Cycle Stopped Error Menu is displayed alternating with the Run Menu (3 seconds Error Menu/ 3 seconds Run Menu) with the Alarm on until the appropriate user input occurs. The user can continue or abort the machine cycle. View “Heat” on the Alarms (3 of 3) Menu for the total error count.

Water Level Sensor Error

If the control senses a High Water Level from the analog Water Level Sensor during an Extract cycle step, the control will abort the machine cycle, display the Cycle Aborted Error Menu, and record and count the Water Level Sensor Errors audit counter. The control saves the error type, cycle, segment and step in which it happened and the date and the time on the Alarms (1 of 3) Menu. View “Level” on the Alarms (3 of 3) Menu for the total error count. The audio signal will also be turned on for the error condition. The Cycle Aborted Error Menu is displayed with the Alarm on until the appropriate user input occurs. The machine cycle is aborted and the user is only given the option of clearing the Cycle Aborted Error Menu and returning to the Cycle Menu.

PDA Communications Error

These errors may occur during communications. When an error occurs, the display shows the Communication Error Menu. The display on the front-end control will indicate the error by displaying a table with the Error type. The Error Menu is automatically cleared from the display after three (3) seconds. When a PDA error occurs, the audit counter Total Bad PDA Communications is increased by one and the hour and date of the event. The error code is saved. This error is not saved on the Alarms (1 of 3) Menu. View “IR” on the Alarms (3 of 3) Menu for the total error count.

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Laundry Management

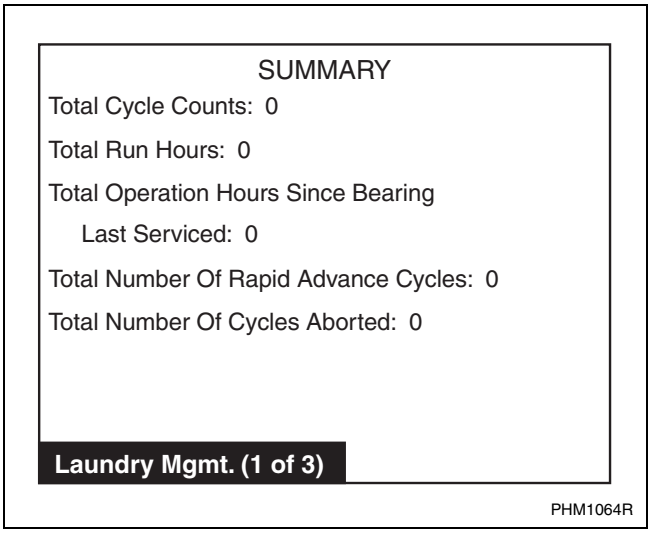
SUMMARY
Total Cycle Counts: 0
Total Run Hours: 0
Total Operation Hours Since Bearing
Last Serviced: 0
Total Number Of Rapid Advance Cycles: 0
Total Number Of Cycles Aborted: 0
Laundry Mgmt. (1 of 3)
PHM1064R

Figure 67

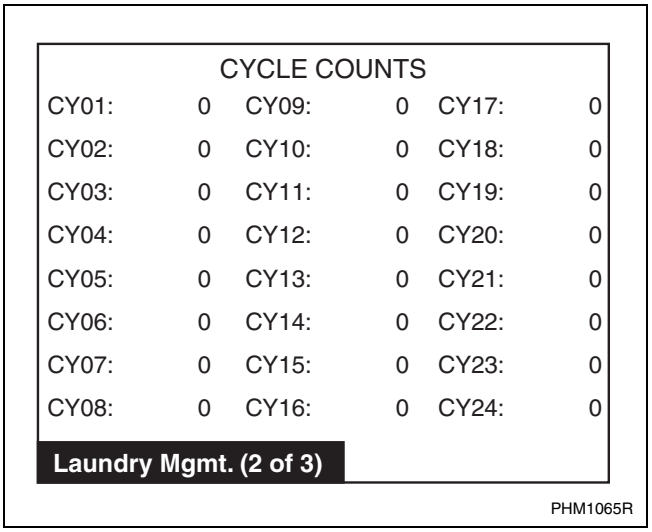

Figure 68

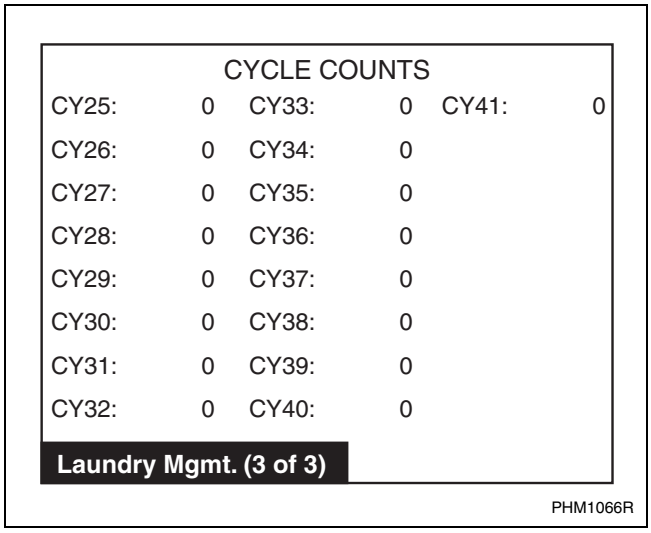

Figure 69

The Laundry Management Menu contains three screens displaying the number of operations per cycle, total cycle counts, and total hours run. The Laundry Management 1 of 3 screens displays Total Cycle Counts, Total Run Hours, Total Operation Hours since Bearing Last Serviced, Total Rapid Advance Cycles and Total Number of Cycles Aborted. The Laundry Management 2 of 3 screen shows user the number of times cycles 1 through 24 have been run. To view cycles 25 through 41, press the → keypad to move to Laundry Management 3 of 3 screen. Press the → keypad again to move to Laundry Management 1 of 3 screen.

Press the BACK keypad in any of the Laundry Management Menus to enter System Menu.

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Total Number of Machine Cycle Counters

Whenever a machine cycle is completed normally without the user Rapid Advancing and not being aborted due to machine errors, the control counts and records the Total Number of Machine Cycles audit counter. If the cycle was Rapid Advanced or was aborted, the control will not increment the Total Number of Machine Cycles audit counter but will increment the Total Number of Rapid Advance Cycles audit counter. If the cycle was aborted due to a machine error, the control will not increment the Total Number of Machine Cycles audit counter but will increment the Total Number of Cycles Aborted audit counter.

Total Number of Operating Minutes Counters

Whenever a machine cycle is operating, the control counts and records the Total Number of Operation Minutes audit counter (not re-settable and displayed in hours) and the Total Number of Operating Minutes Since Bearings Last Serviced auto counter.

Last 10 Machine Cycles Rapid Advanced or Stopped

Whenever a machine cycle is ended, either by the user Rapid Advancing, aborting a cycle or because of a power failure, the control stores the information about that cycle in the next available location, storing the last 10 machine cycles ended in this way. The information stored includes: Cycle number, start month, start date, start hour, start minute, end month, end date, end hour, end minute and how the cycle ended (rapid advance, stop, power failure, or opened door machine error).

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Maintenance

Service Schedule Menu

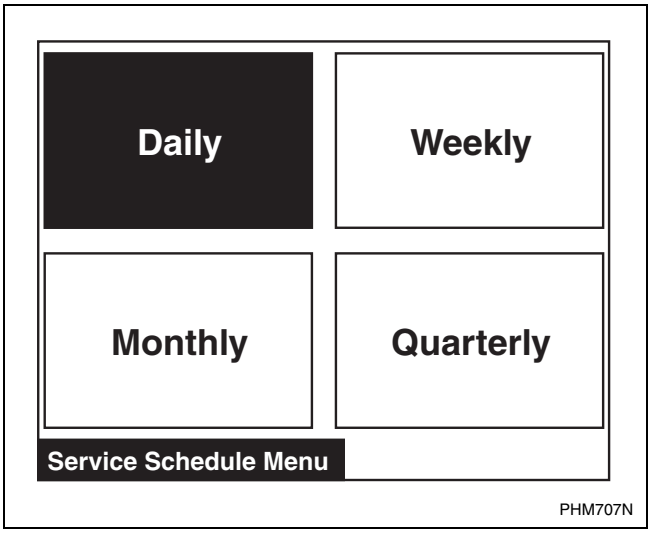

Figure 70

Press BACK from Cycle Menu to enter Service Schedule Menu. The Service Schedule Menu provides a user with a time based service reminder list. The list is broken up into “DAILY”, “WEEKLY”, “MONTHLY”, and “QUARTERLY” Menus. Press the LCD UNLOCK ← or → keypad to navigate to a menu item. Press the START ENTER keypad when menu is selected. Press the BACK keypad to return to Cycle Menu.

Daily Menu (Service)

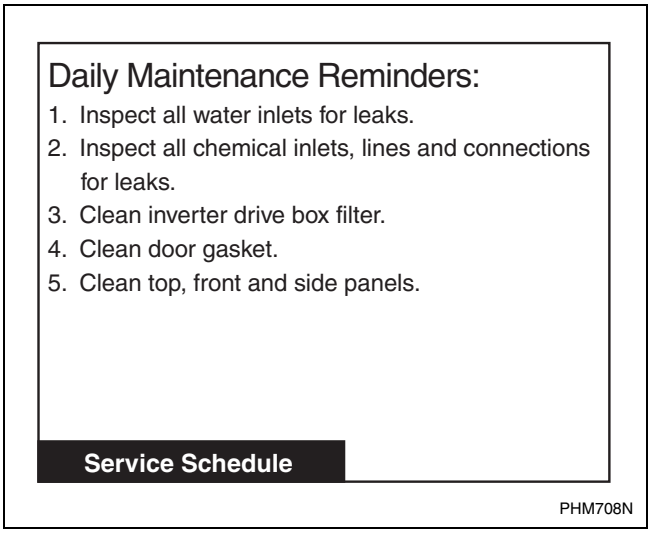
Daily Maintenance Reminders:
1. Inspect all water inlets for leaks.
2. Inspect all chemical inlets, lines and connections for leaks.
3. Clean inverter drive box filter.
4. Clean door gasket.
5. Clean top, front and side panels.
Service Schedule
PHM708N

Figure 71

The Daily Menu contains all daily service reminders that need to be performed. Press the BACK keypad to return to the Service Menu.

Weekly Menu (Service)

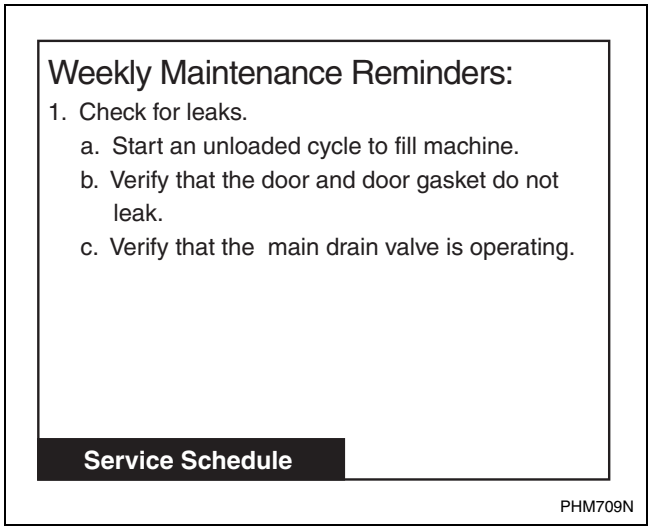
Weekly Maintenance Reminders:
1. Check for leaks.
a. Start an unloaded cycle to fill machine.
b. Verify that the door and door gasket do not leak.
c. Verify that the main drain valve is operating.
Service Schedule
PHM709N

Figure 72

The Weekly Menu contains all weekly service reminders that need to be performed. Press the BACK keypad to return to the Service Menu.

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Monthly Menu (Service)

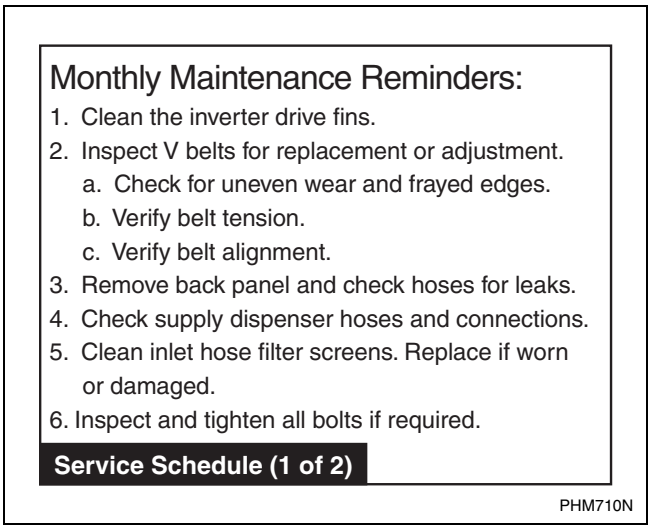
Monthly Maintenance Reminders:
1. Clean the inverter drive fins.
2. Inspect V belts for replacement or adjustment.
a. Check for uneven wear and frayed edges.
b. Verify belt tension.
c. Verify belt alignment.
3. Remove back panel and check hoses for leaks.
4. Check supply dispenser hoses and connections.
5. Clean inlet hose filter screens. Replace if worn or damaged.
6. Inspect and tighten all bolts if required.
Service Schedule (1 of 2)
PHM710N

Figure 73

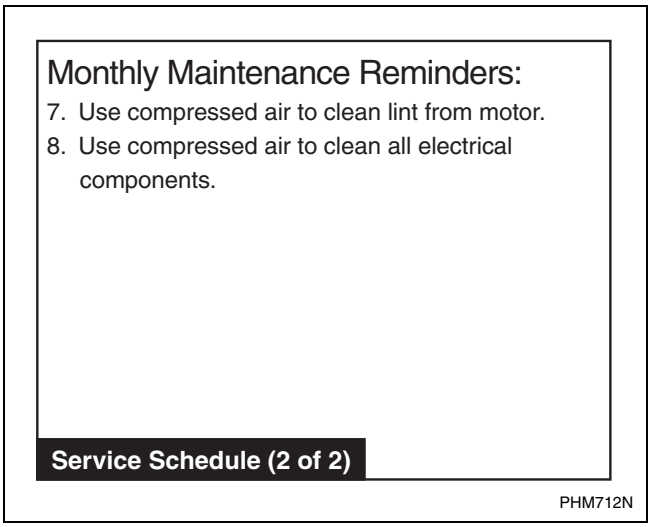
Monthly Maintenance Reminders:
7. Use compressed air to clean lint from motor.
8. Use compressed air to clean all electrical components.
Service Schedule (2 of 2)
PHM712N

Figure 74

The Monthly Menu contains all monthly service reminders that need to be performed.

Press ← or → to view Monthly Menu (2 of 2).

Press the BACK keypad to return to Service Menu.

Quarterly Menu (Service)

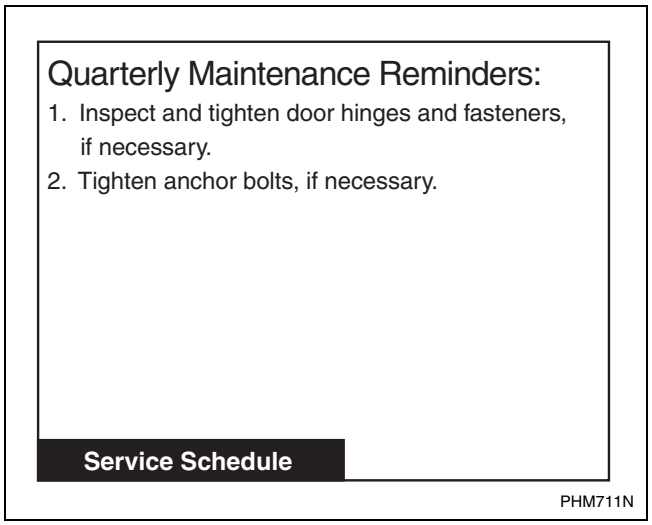
Quarterly Maintenance Reminders:
1. Inspect and tighten door hinges and fasteners, if necessary.
2. Tighten anchor bolts, if necessary.
Service Schedule
PHM711N

Figure 75

The Quarterly Menu contains all quarterly service reminders that need to be performed. Press the BACK keypad to return to Service Menu.

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Cycle Charts

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
1	Towels, White, Bleach	Towels White Bleach	#1 Wash		Hot	S1, E1		18/3/18		Yes			
					Low	45 Sec		8 Min					
			#2 Wash		Hot	S2, E2		18/3/18		Yes			
					Low	45 Sec		8 Min					
			#3 Rinse		Warm			18/3/18		Yes			
					High			2 Min					
			#4 Rinse		Warm			18/3/18		Yes			
					High			2 Min					
			#5 Rinse		Warm			18/3/18		Yes	Warm		
					High			2 Min			2 Min		
			#6 Rinse		Warm	S3, S4 & E3, E4		18/3/18		Yes		Very High	Yes
					Low	45 Sec		4 Min				5 Min	
2	Towels, White	Towels White	#1 Wash		Hot	S1, E1		18/3/18		Yes			
					Low	45 Sec		8 Min					
			#2 Rinse		Warm			18/3/18		Yes			
					High			2 Min					
			#3 Rinse		Warm			18/3/18		Yes			
					High			2 Min					
			#4 Rinse		Warm			18/3/18		Yes	Warm		
					High			2 Min			2 Min		
			#5 Rinse		Warm	S3, S4 & E3, E4		18/3/18		Yes		Very High	Yes
					Low	45 Sec		4 Min				5 Min	

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
3	Towels, Colors, Oxygen Bleach	Towels Colors Oxygen	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes			
			#5 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
4	Towels, Colors	Towels Colors	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Cold High			18/3/18 2 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	Cycle No.
5	Sheets, White, Bleach	Sheets White Bleach	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 5 Min		Yes		Very High 4 Min	Yes
6	Sheets, White	Sheets White	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#4 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 5 Min		Yes		Very High 4 Min	Yes
7	Sheets, Color, Oxygen Bleach	Sheets Color Oxygen	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Warm Low	S2, E2 45 sec		18/3/18 7 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 4 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
8	Sheets, Color	Sheets Color	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Cold High			18/3/18 2 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#4 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 4 min	Yes
9	Sheets, White, Bleach & Ironer	Sheets White B & I	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 6 min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
10	Sheets, White, Ironer	Sheets White Ironer	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 6 min	Yes
11	Sheets, Color, Bleach & Ironer	Sheets Color B & I	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Wash		Warm Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes			
			#5 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 6 min	Yes
12	Sheets, Color, Ironer	Sheets Color Ironer	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Cold High			18/3/18 2 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 6 min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
13	Blankets, Spreads, Warm	Blanket Spreads Warm	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
14	Blankets, Spreads, Cold	Blanket Spreads Cold	#1 Wash		Cold Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#2 Rinse		Cold High			18/3/18 2 Min		Yes			
			#3 Rinse		Cold High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#5 Rinse		Warm High	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
15	Sheets, Health Care	Sheets, Health Care	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#3 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 5 Min		Yes		Very High 4 Min	Yes
16	Towels, Health Care	Towels Health Care	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#3 Wash		Hot Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes			
			#6 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#7 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
17	Patient, Health Care	Patient Health Care	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Warm Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Medium 4 Min	Yes
18	Diapers, Health Care	Diapers Health Care	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#3 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#4 Wash		Hot Low	S1, E1 45 Sec		18/3/18 10 Min		Yes			
			#5 Wash		Hot Low	S2, E2 45 Sec		18/3/18 10 Min		Yes			
			#6 Rinse		Warm High			18/3/18 2 Min		Yes			
			#7 Rinse		Warm High			18/3/18 2 Min		Yes			
			#8 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#9 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
19	Blankets/ Spreads Health Care	Blanket Health Care	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Warm Low	S1, E1 45 Min		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Medium 5 Min	Yes
20	Napery White Bleach	Napery White Bleach	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#3 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes			
			#6 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#7 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Medium 3 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
21	Napery White Bleach & Ironer	Napery White B & I	#1 Pre Wash		Warm Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S5, E5 45 Sec		18/3/18 4 Min		Yes		Very High 6 Min	Yes
22	Napery Color	Napery Color	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 10 min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Cold High			18/3/18 2 Min		Yes			
			#5 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#6 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Medium 3 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
23	Napery Color Oxygen	Napery Color Oxygen	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#3 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Cold High			18/3/18 2 Min		Yes			
			#6 Rinse		Cold High			18/3/18 2 Min		Yes	Cold 2 Min		
			#7 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Medium 3 Min	Yes
24	Napery Color Ironer	Napery Color Ironer	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 10 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S5, E5 45 Sec		18/3/18 4 Min		Yes		Very High 6 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
25	Napery Color Bleach & Ironer	Napery Color B & I	#1 Pre Wash		Warm Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#6 Rinse		Warm Low	S5, E5 45 Sec		18/3/18 4 Min		Yes		Very High 6 Min	Yes
26	Shirts White Bleach	Shirts White Bleach	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
27	Shirts White Bleach Starch	Shirts Bleach Starch	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S5, E5 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

Table 6 (Continued)

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
28	Shirts Color	Shirts Color	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 10 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#4 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
29	Shirts Color Starch	Shirts Color Starch	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 10		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#4 Rinse		Warm Low	S5, E5 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
30	Starch & Spin Only	Starch Spin Only	#1 Rinse		Warm Low	S3, S5 & E3, E5 45 Sec		18/3/18 7 Min		Yes		Very High 5 Min	Yes
31	Uniforms White Bleach	Uniform White Bleach	#1 Wash		Hot Low	S1, E1 45 Sec		18/3/18 7 Min		Yes			
			#2 Wash		Hot Low	S2, E2 45 Sec		18/3/18 7 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 3 Min	Yes

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
32	Uniforms, Color	Uniform Color	#1 Wash		Warm Low	S1, E1 45 Sec		18/3/18 10 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#4 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 3 Min	Yes
33	Rags & Mops	Rags & Mops	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#3 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#4 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#5 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#6 Wash		Hot Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#7 Rinse		Warm High			18/3/18 2 Min		Yes			
			#8 Rinse		Warm High			18/3/18 2 Min		Yes			
			#9 Rinse		Warm Low	S3, S4 & E3, E4		18/3/18 2 Min		Yes		Very High 5 Min	Yes

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
34	Stain Reclaim	Stain Reclaim	#1 Wash		Hot Low	S1, S2 & E1, E2 45 Sec		18/3/18 30 Min		Yes			
			#2 Rinse		Warm High			18/3/18 2 Min		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#5 Rinse		Warm High			18/3/18 5 Min		Yes		Very High 5 Min	Yes
35	Heavy Soil Bleach	Heavy Soil Bleach	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#3 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#4 Wash		Hot Low	S1, E1 45 Sec		18/3/18 8 Min		Yes			
			#5 Wash		Hot Low	S2, E2 45 Sec		18/3/18 8 Min		Yes			
			#6 Rinse		Warm High			18/3/18 2 Min		Yes			
			#7 Rinse		Warm High			18/3/18 2 Min		Yes			
			#8 Rinse		Warm High			18/3/18 2 Min		Yes	Warm 2 Min		
			#9 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
36	Overnight Soak	Over Night Soak	#1 Pre Wash		Hot High			18/3/18 2 Min		Yes			
			#2 Wash		Hot High	S1, E1 45 Sec		No Rotate 8 Hours		Yes			
			#3 Rinse		Warm High			18/3/18 2 Min		Yes			
			#4 Rinse		Warm High			18/3/18 2 Min		Yes			
			#5 Rinse		Warm High	S3, S4 & E3, E4 45 Sec		18/3/18 4 Min		Yes		Very High 5 Min	Yes
37	Rinse & Spin	Rinse Spin Only	#1 Rinse		Warm Low			18/3/18 2 Min		Yes		Very High 4 Min	Yes
38	Delicate	Delicate	#1 Wash		Cold Med	S1, E1 45 Sec		3/27/3 6 Min		Yes			
			#2 Rinse		Cold High			3/27/3 2 Min		Yes			
			#3 Rinse		Cold High			3/27/3 2 Min		Yes			
			#4 Rinse		Warm Low	S3, S4 & E3, E4 45 Sec		3/27/3 5 Min		Yes		Very Low 2 Min	Yes
39	General Short	General Short	#1 Wash		Hot Low	S1, E1		18/3/18 12 Min		Yes			
			#2 Rinse		Warm High			18/3/18 3 Min		Yes		Medium 1 Min	
			#3 Rinse		Warm High			18/3/18 3 Min		Yes	Warm 2 Min	Very High 5 Min	Yes

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Table 6 (Continued)

Cycle No.	Cycle Name	Cycle Display Name	Segment Number & Name	Reuse Fill Step	Fill	Supply A	Supply B	Agitate Step	Cool Down	Drain	Spray Rinse Extract	Extract	EOS
40	General Long	General Long	#1 Pre Wash		Warm High			18/3/18 2 Min		Yes			
			#2 Wash		Hot Low	S1, E1 45 Sec		18/3/18 15 Min		Yes			
			#3 Rinse		Warm High			18/3/18 3 Min		Yes		Medium 1 Min	
			#4 Rinse		Warm High			18/3/18 3 Min		Yes	Warm 2 Min	Very High 5 Min	Yes
41	Supply Set Up	Supply Set Up	#1 Rinse		Warm Low	S1, S2 & E1, E2 45 Sec	S3, S4, S5 & E3, E4 E5 45 Sec	18/3/18 2 Min		Yes			
			#2 Rinse		Warm Low			18/3/18 1 Min		Yes			Yes

Table 6

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